

FIGURE 2

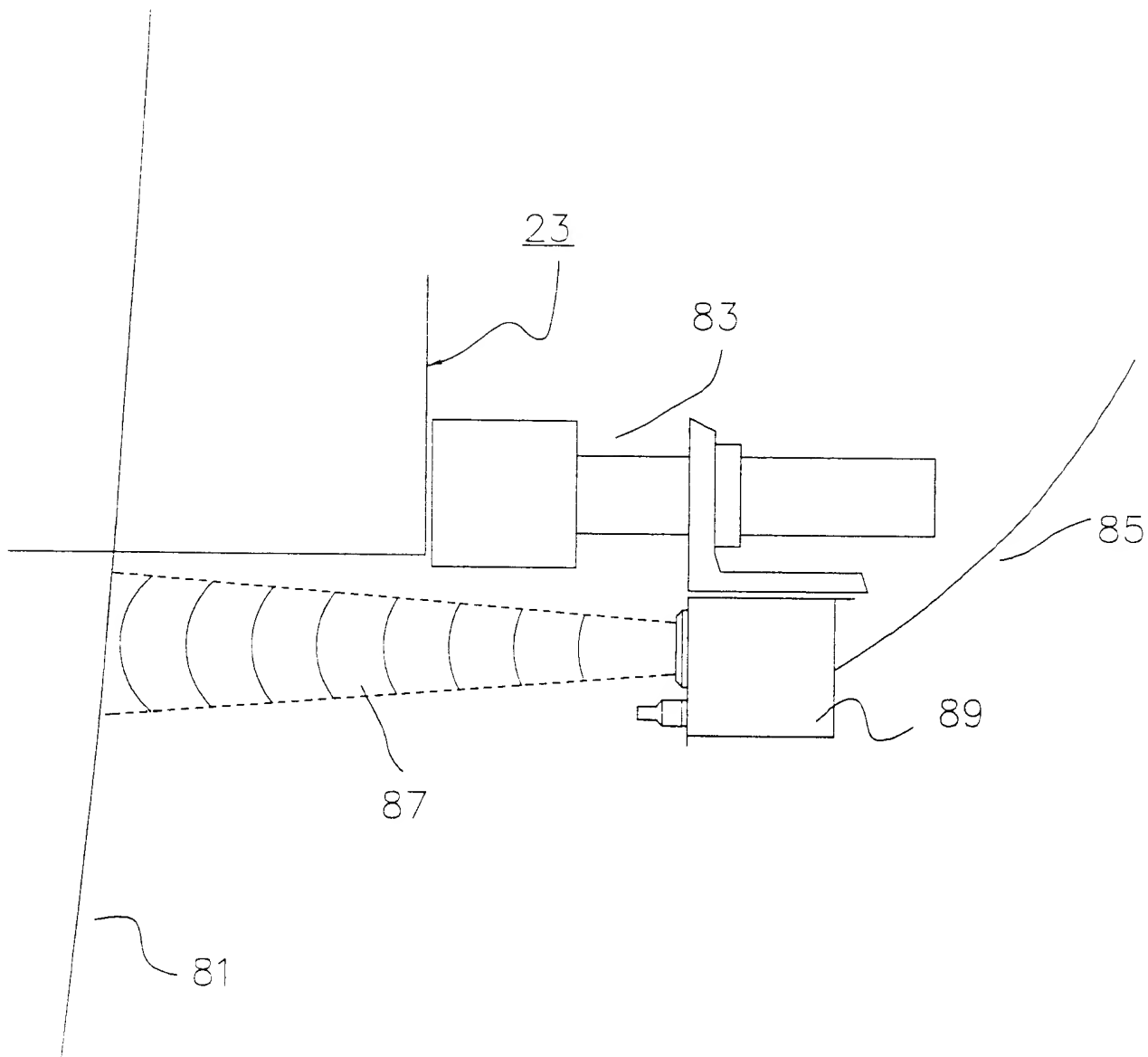


FIGURE 3

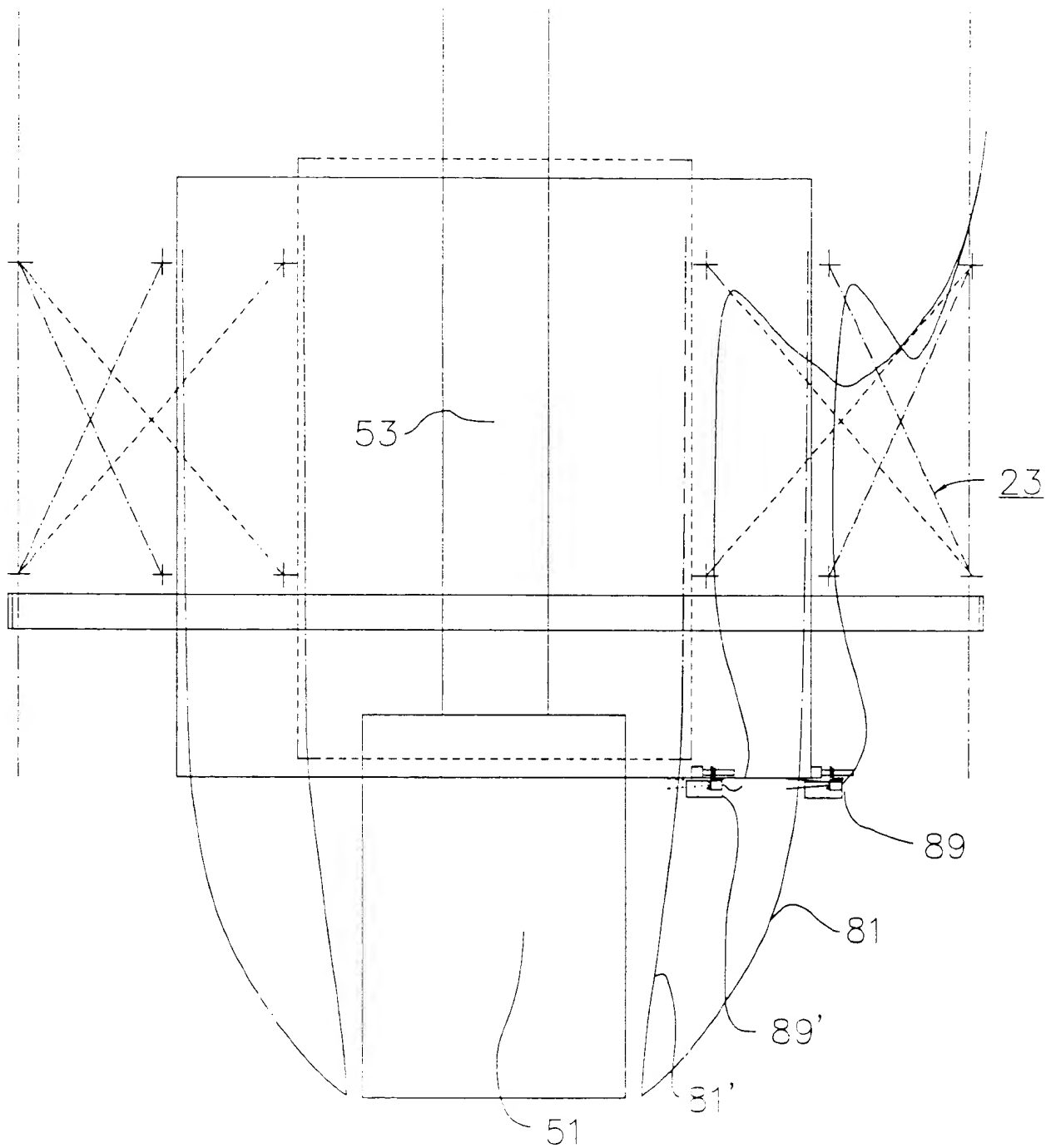


FIGURE 4

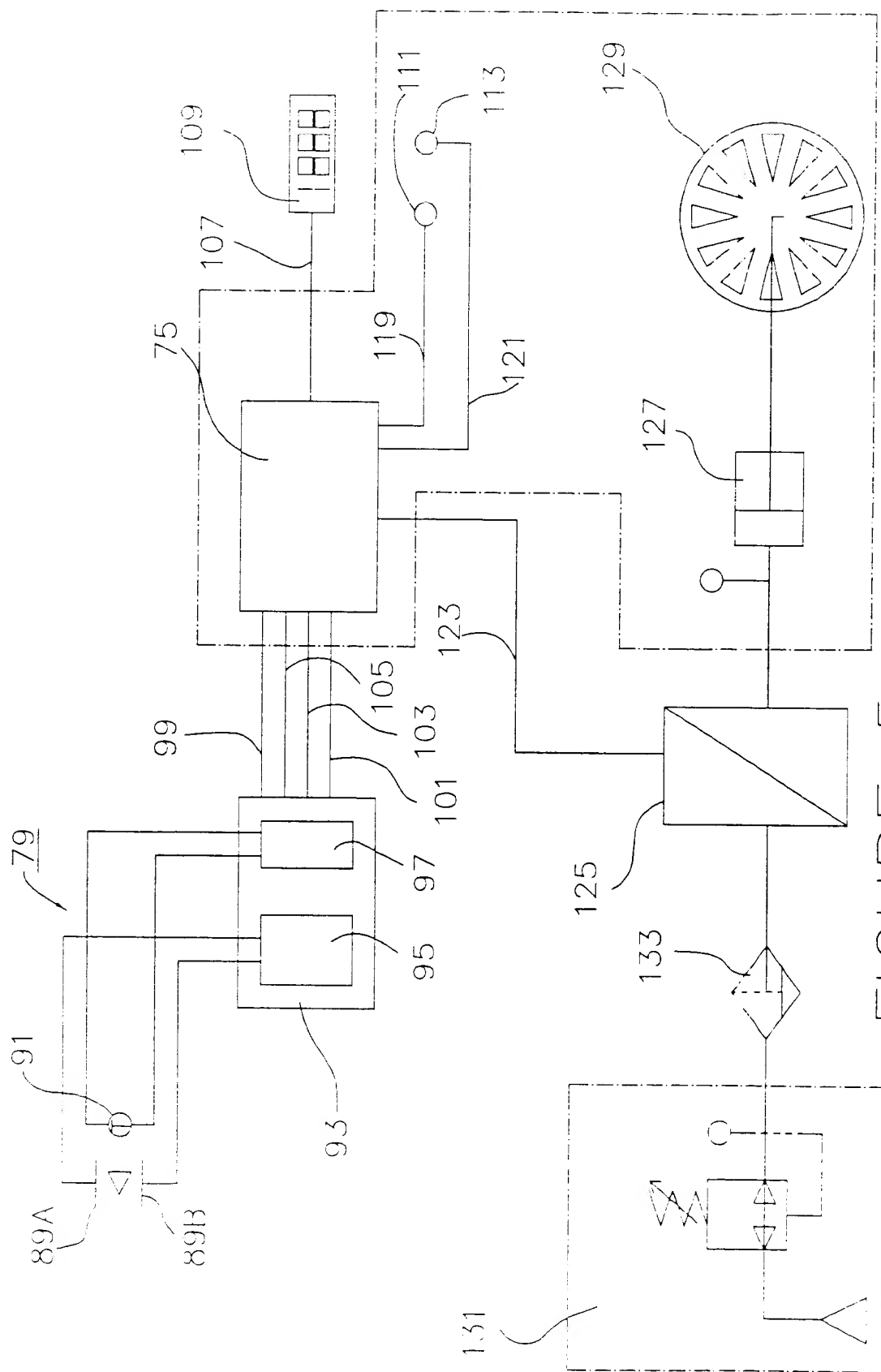


FIGURE 5

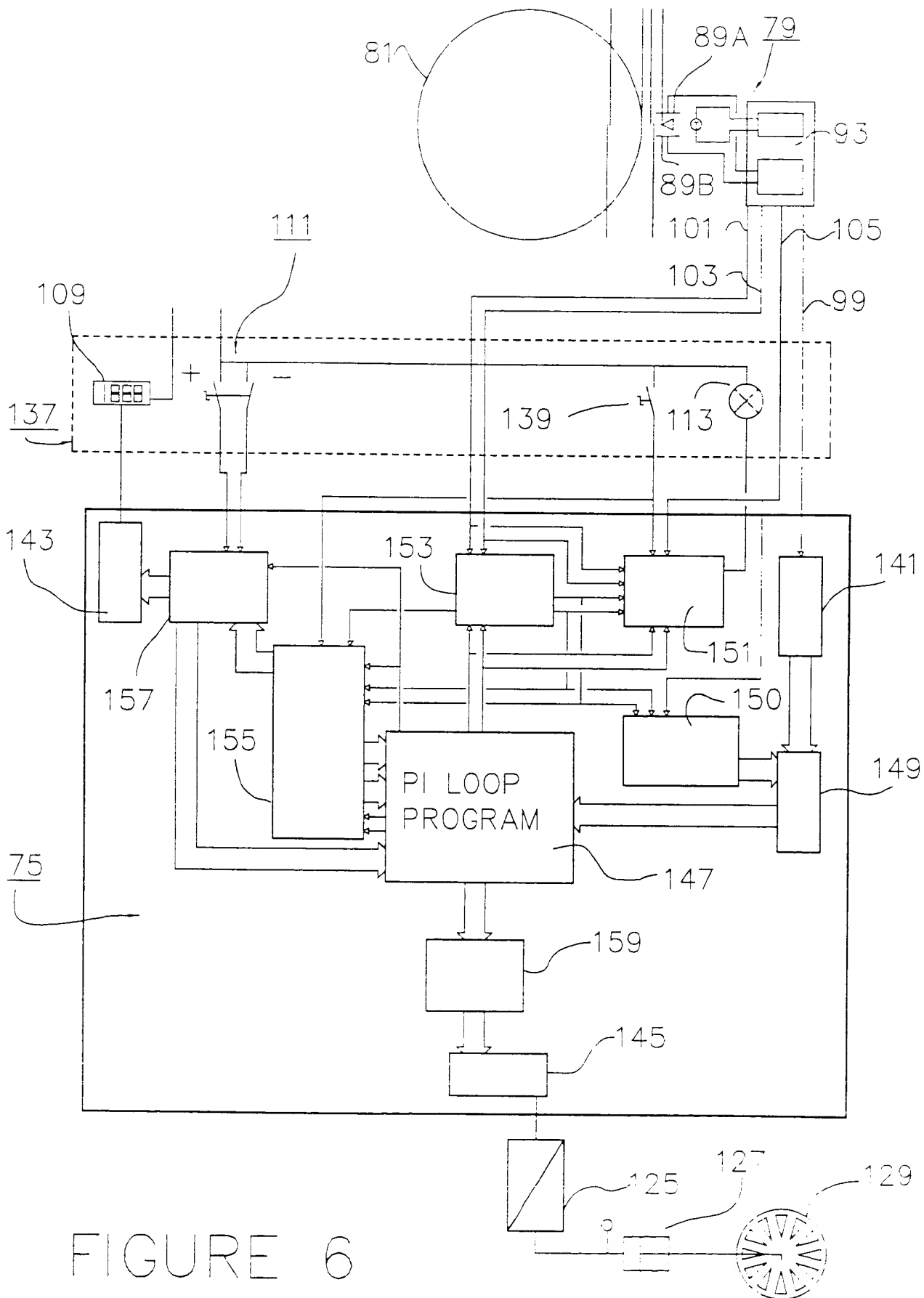


FIGURE 6

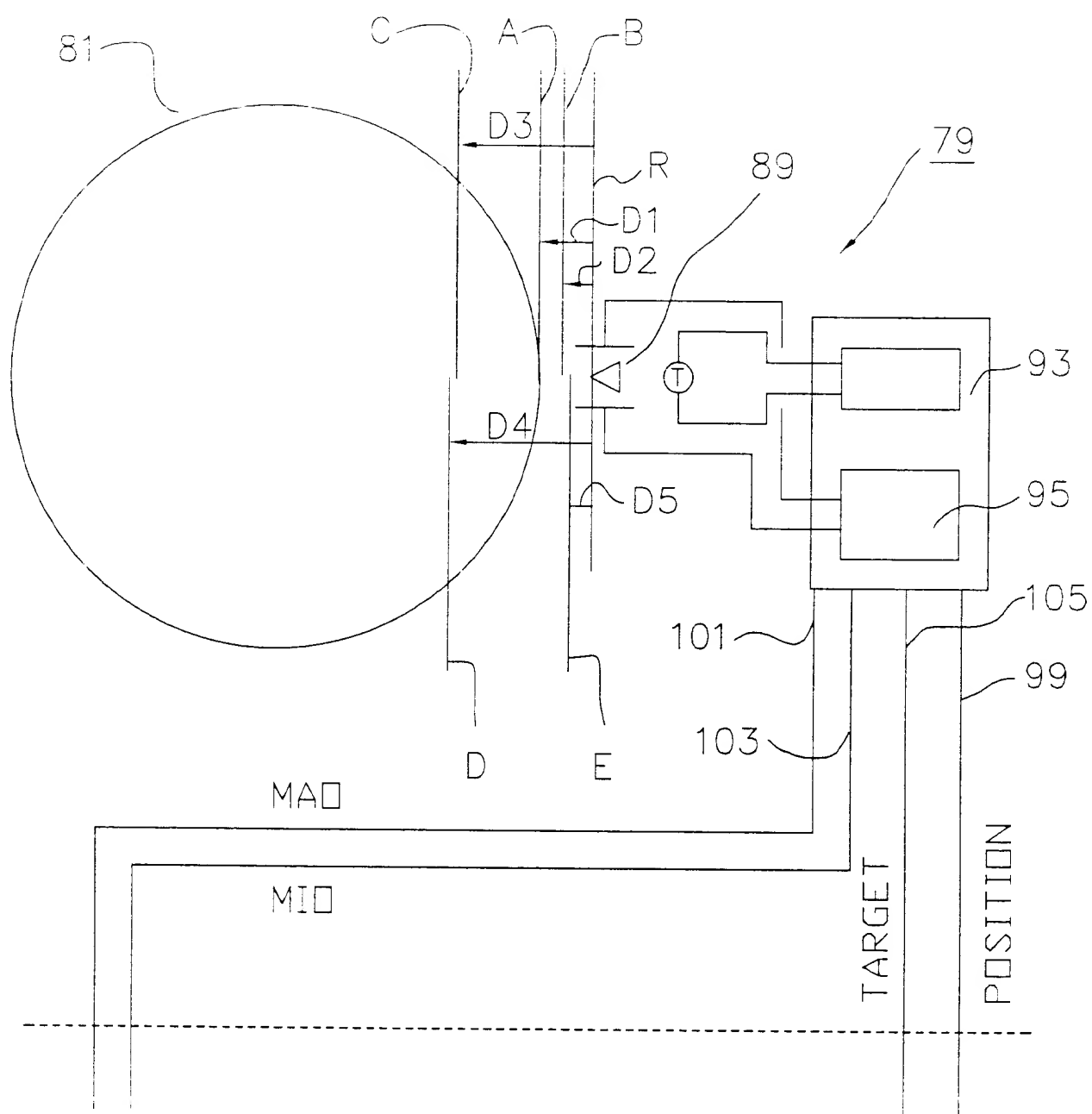


FIGURE 7A

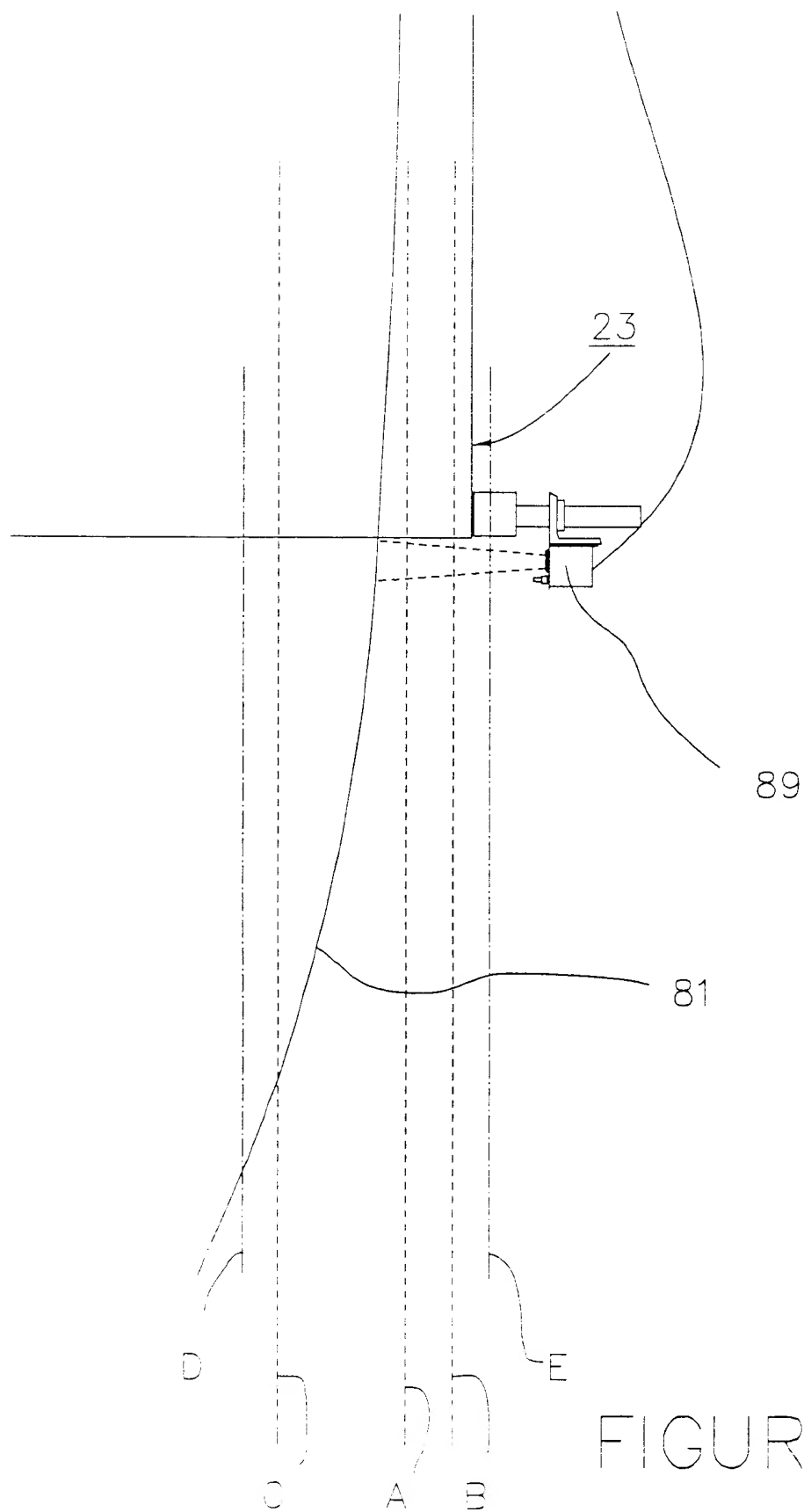


FIGURE 7B



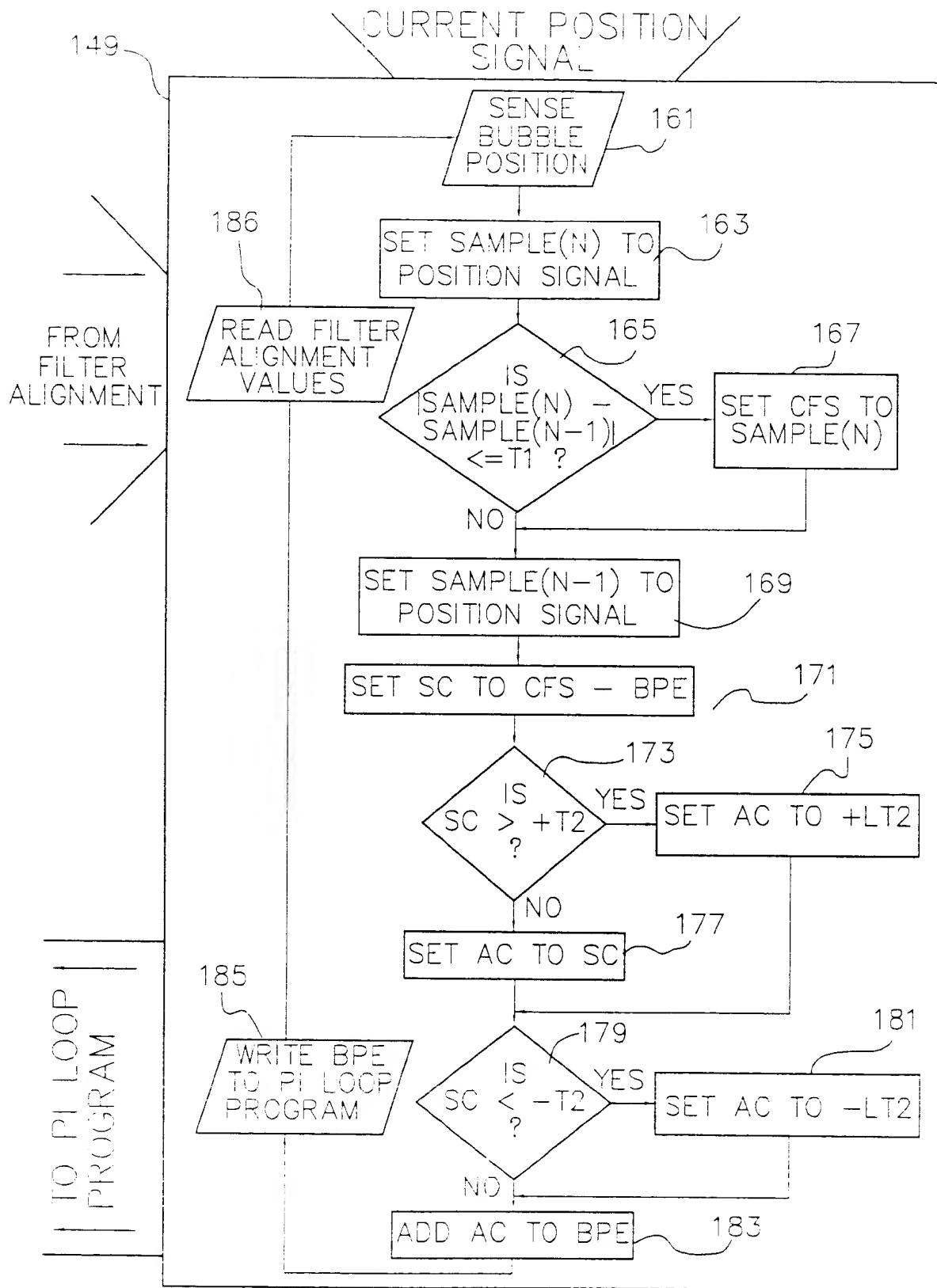
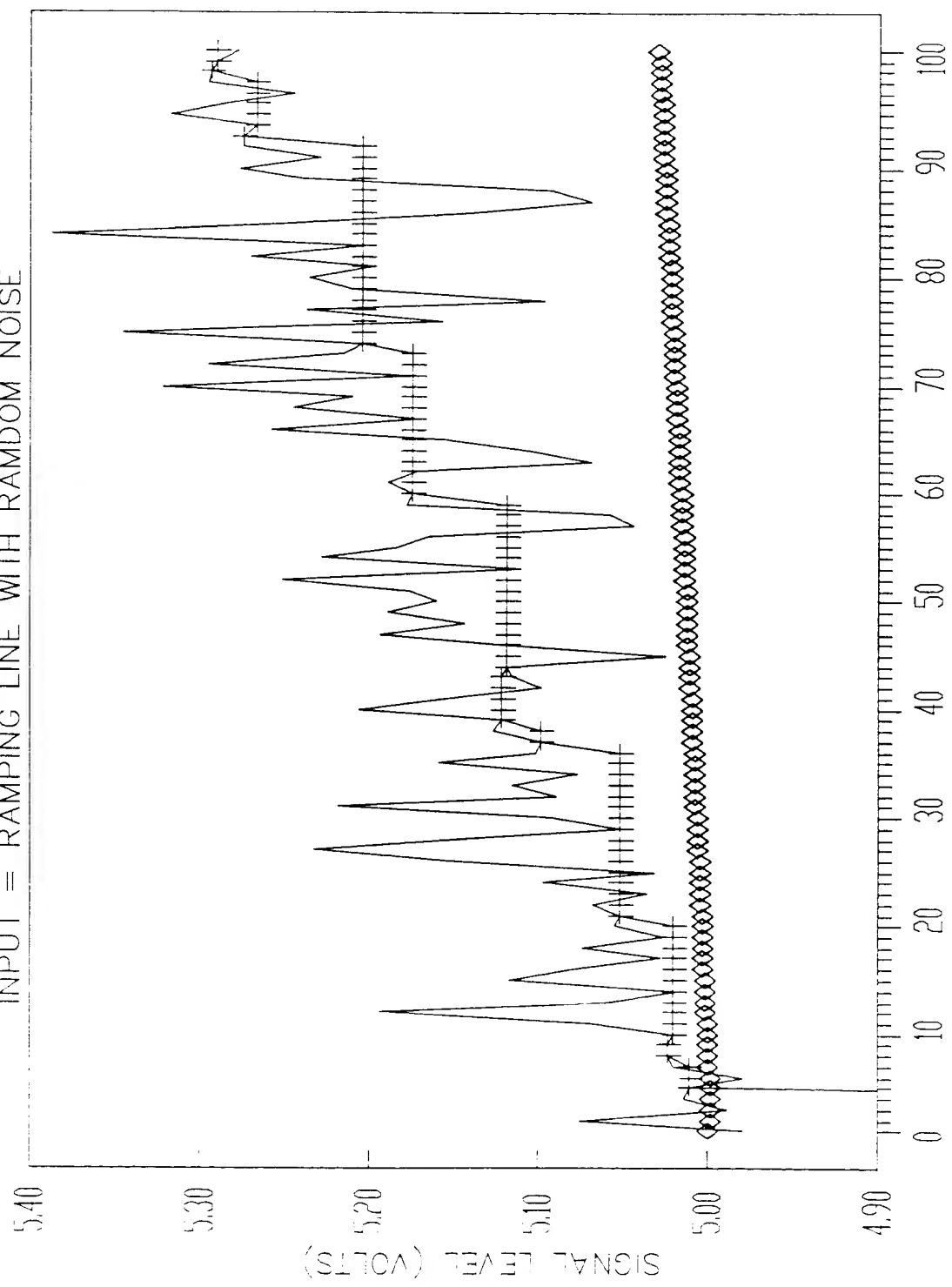


FIGURE 8A

# IS-IBC1 FILTER SIMULATION

INPUT = RAMPING LINE WITH RANDOM NOISE



TIME SAMPLE (.034 SECONDS)

-INPUT +CFS BPE

FIGURE 8B

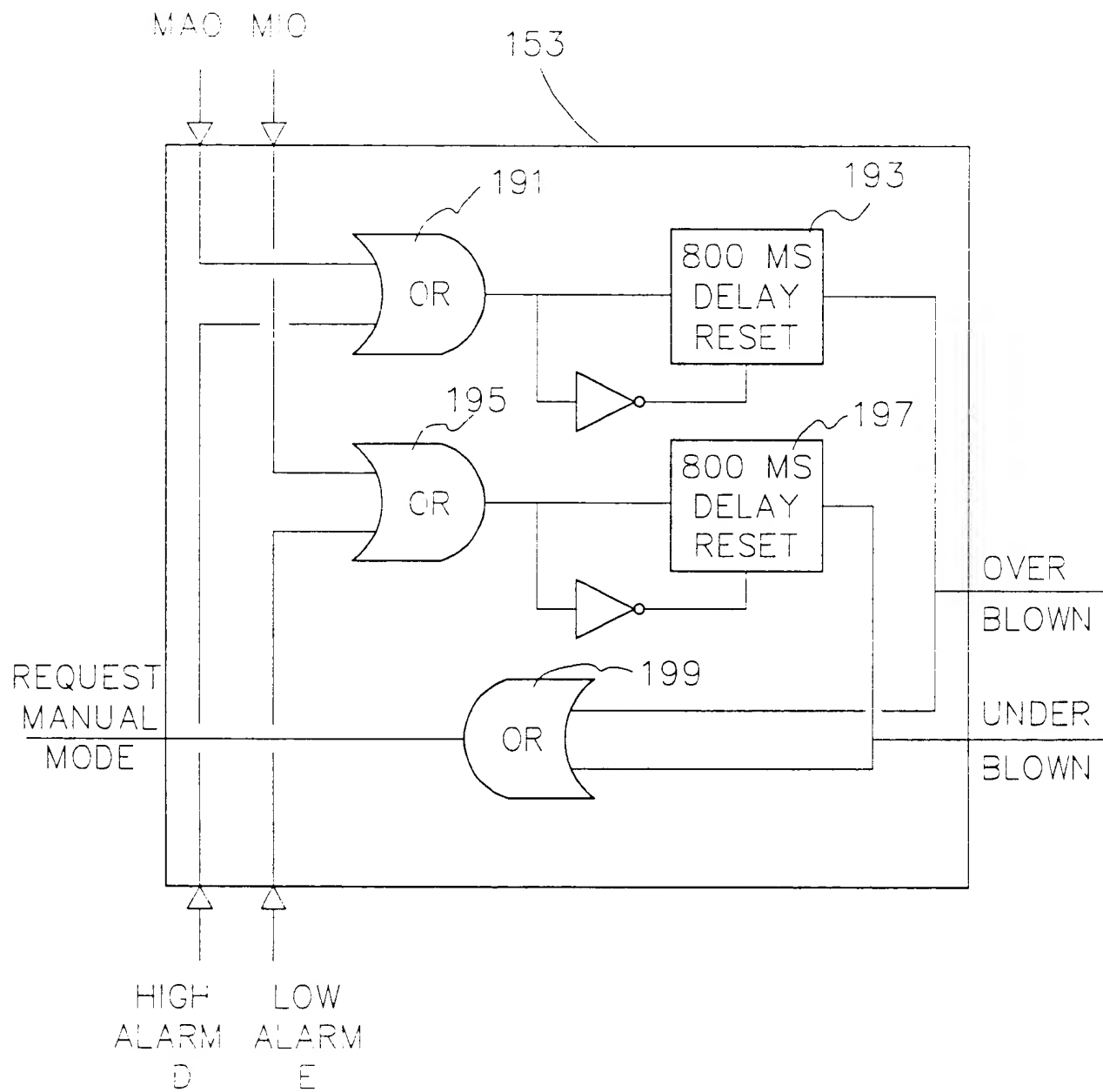


FIGURE 9

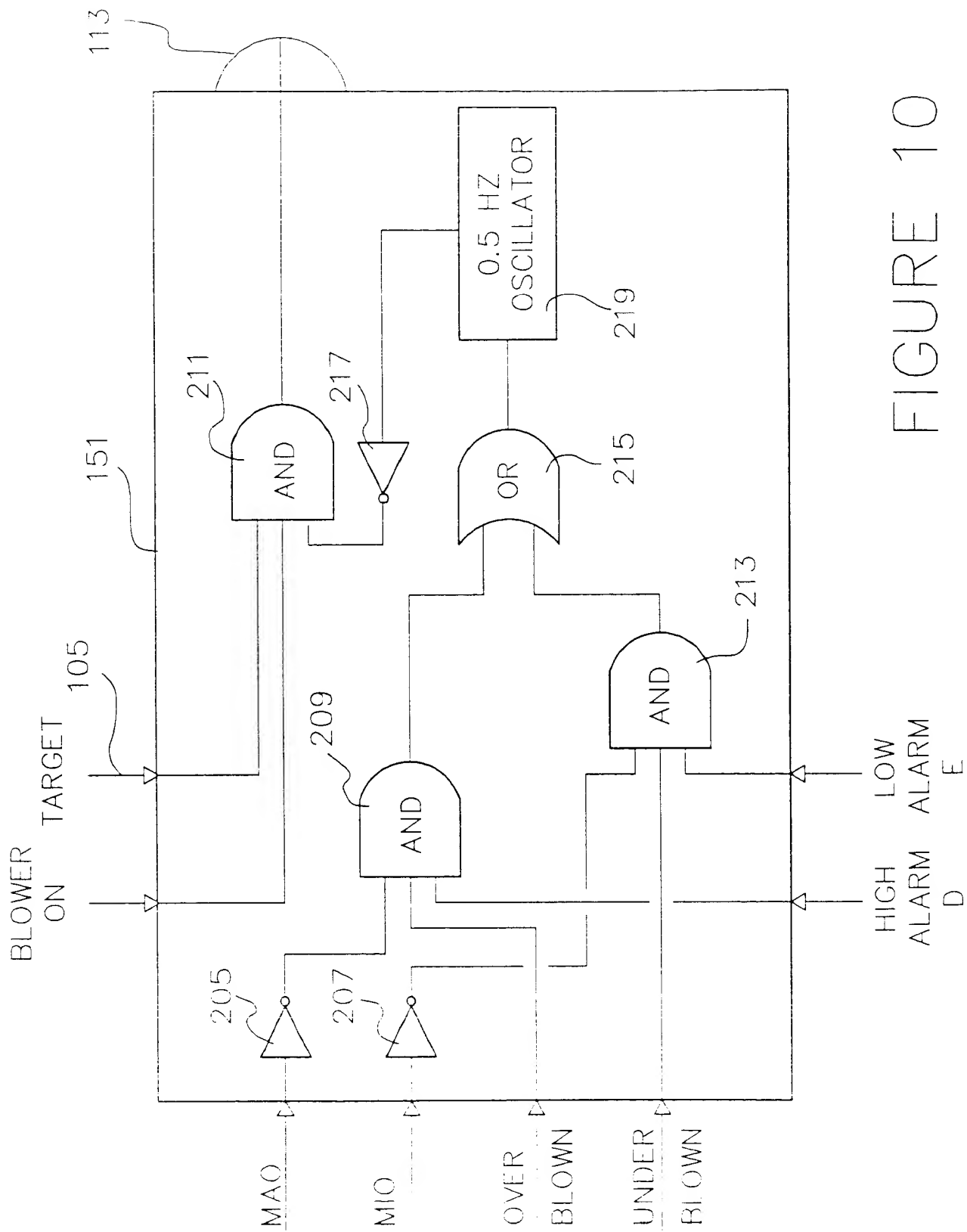


FIGURE 10

155

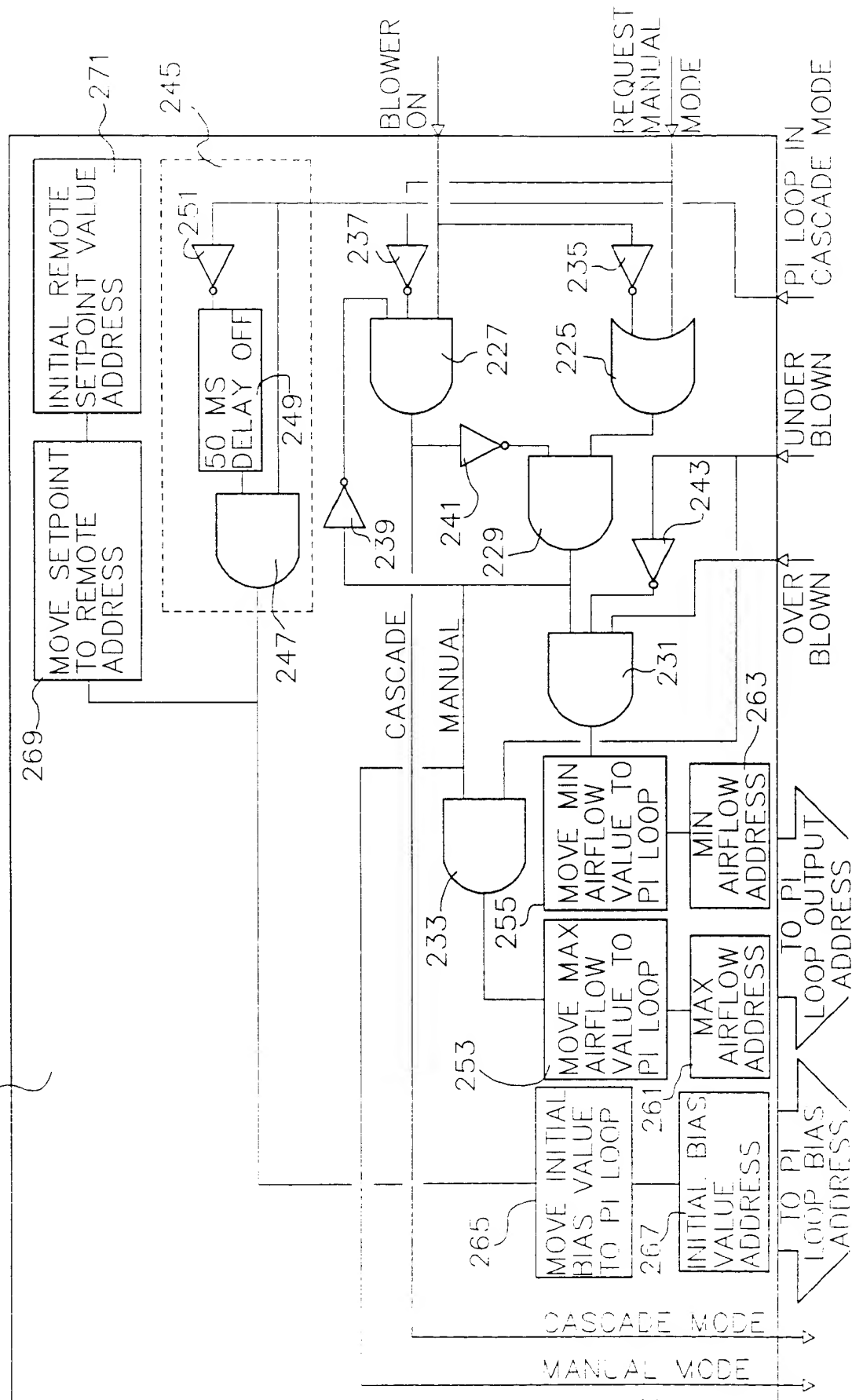


FIGURE 11

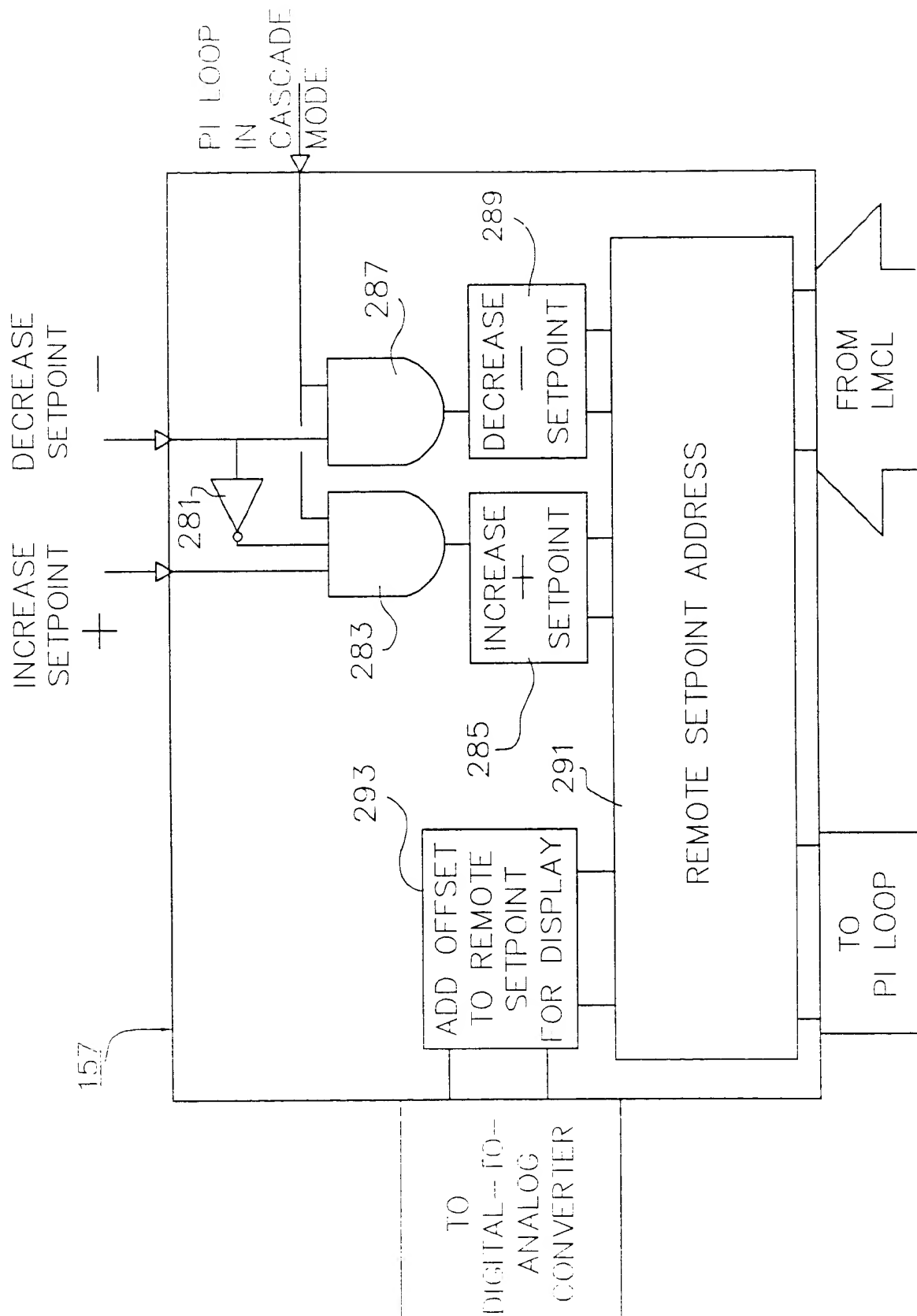


FIGURE 12

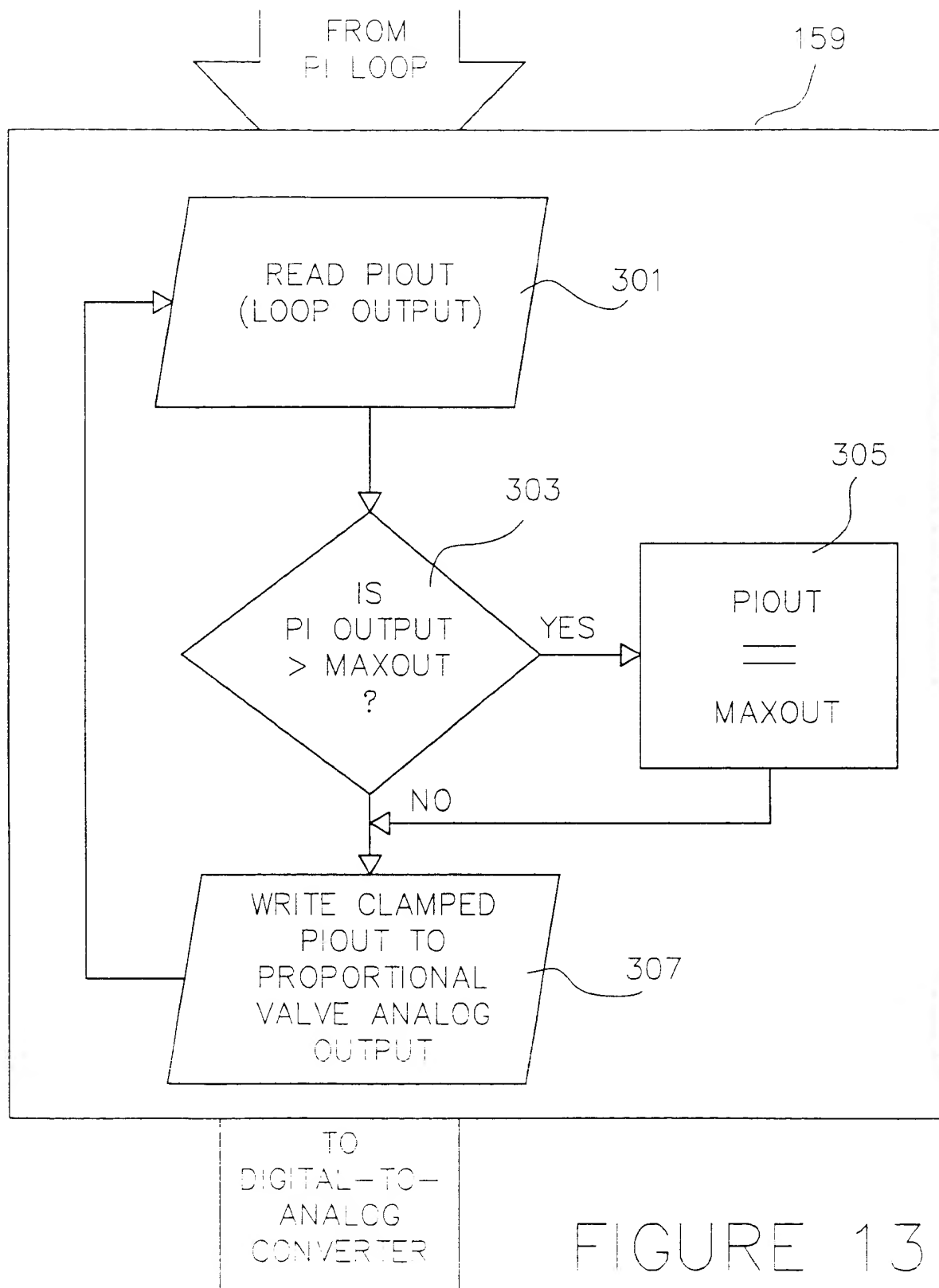


FIGURE 13

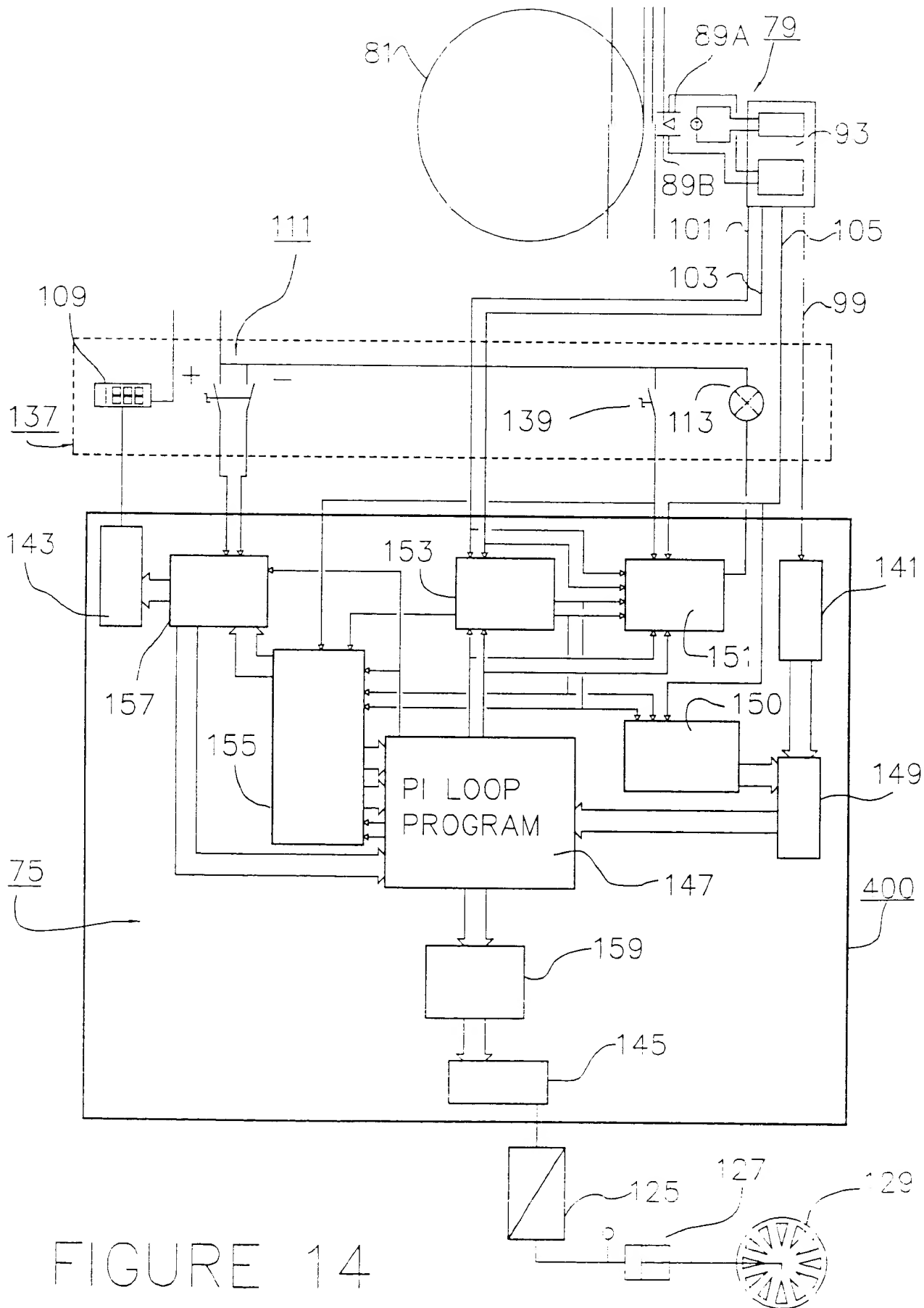


FIGURE 14



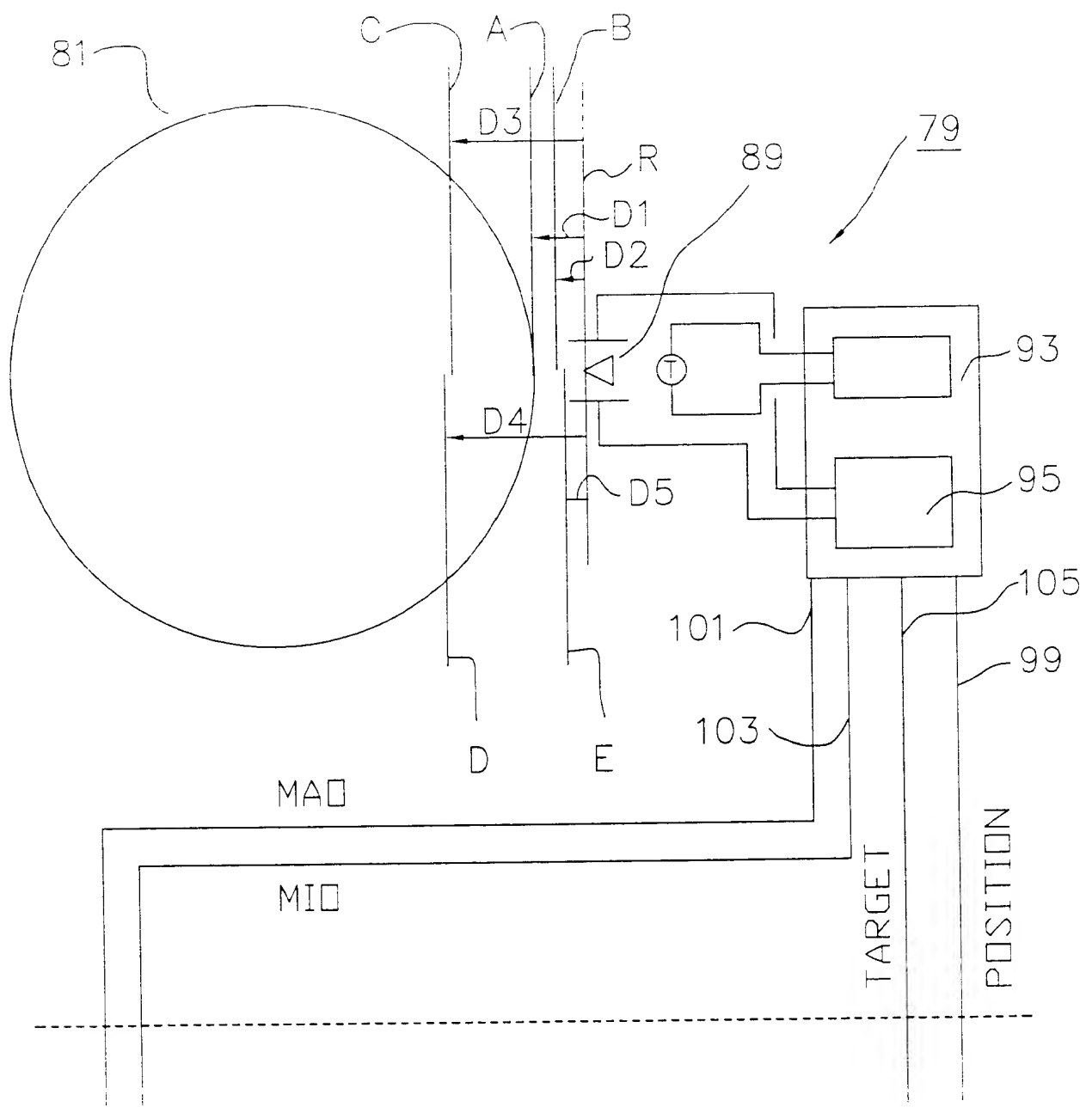


FIGURE 15

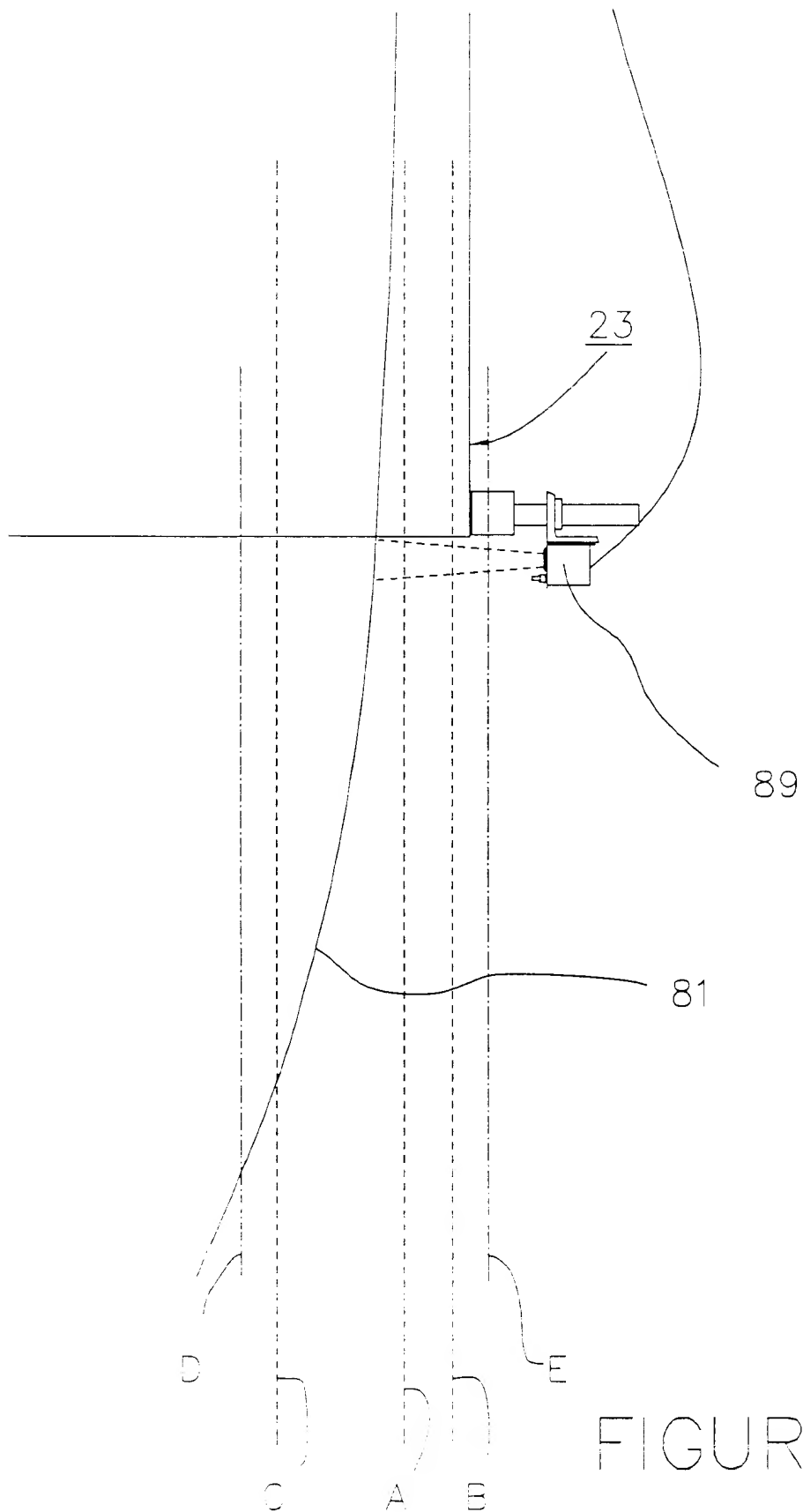


FIGURE 16

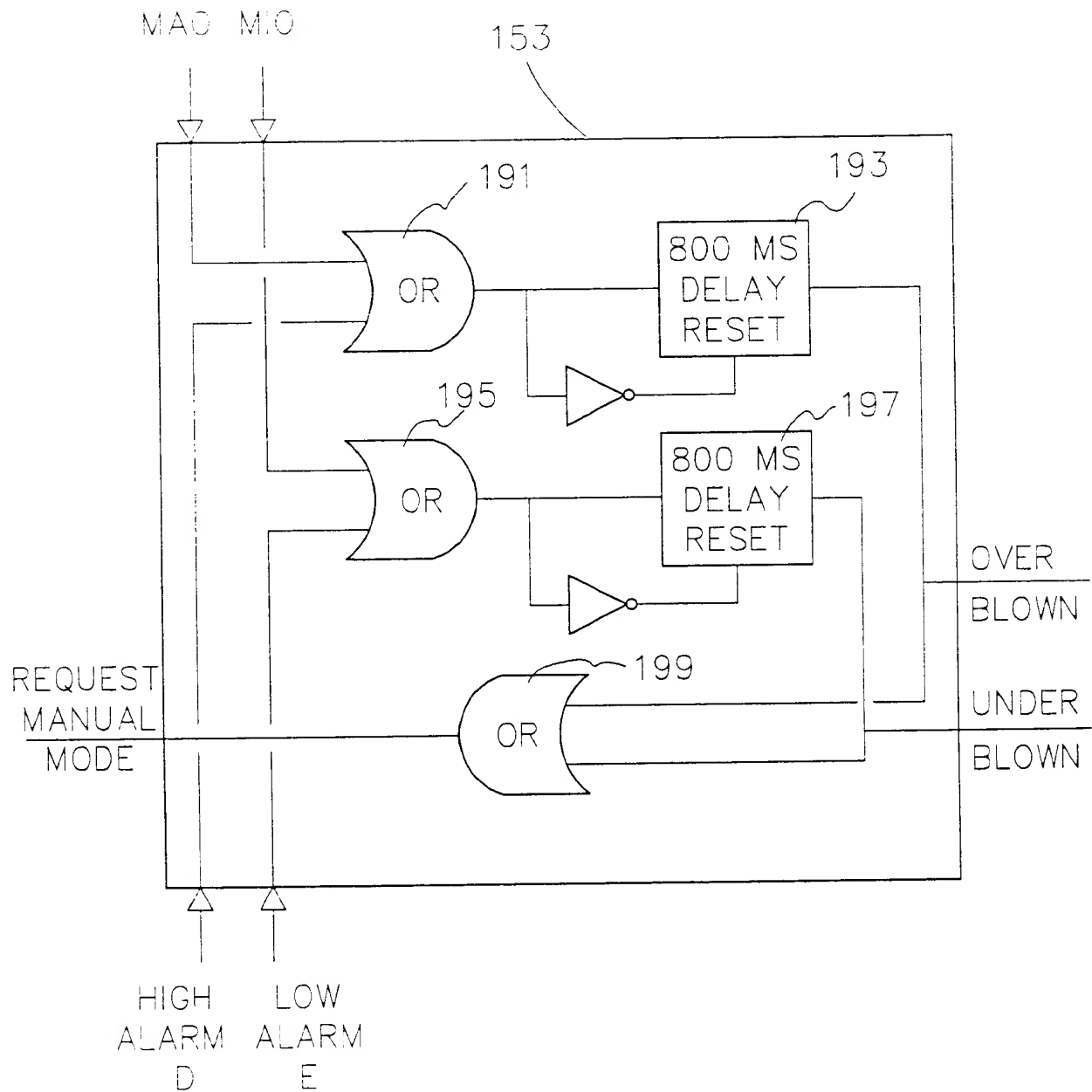


FIGURE 17

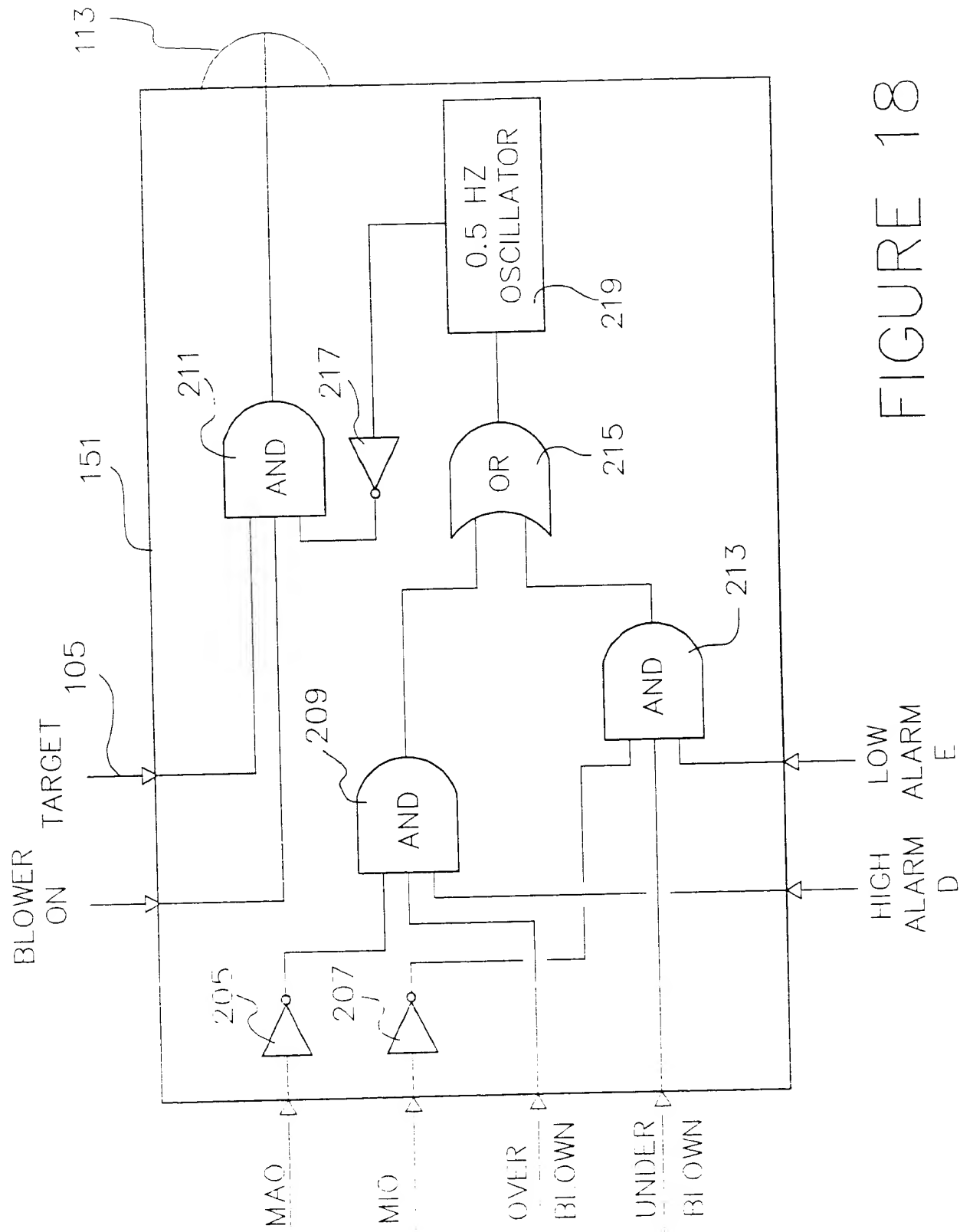


FIGURE 18

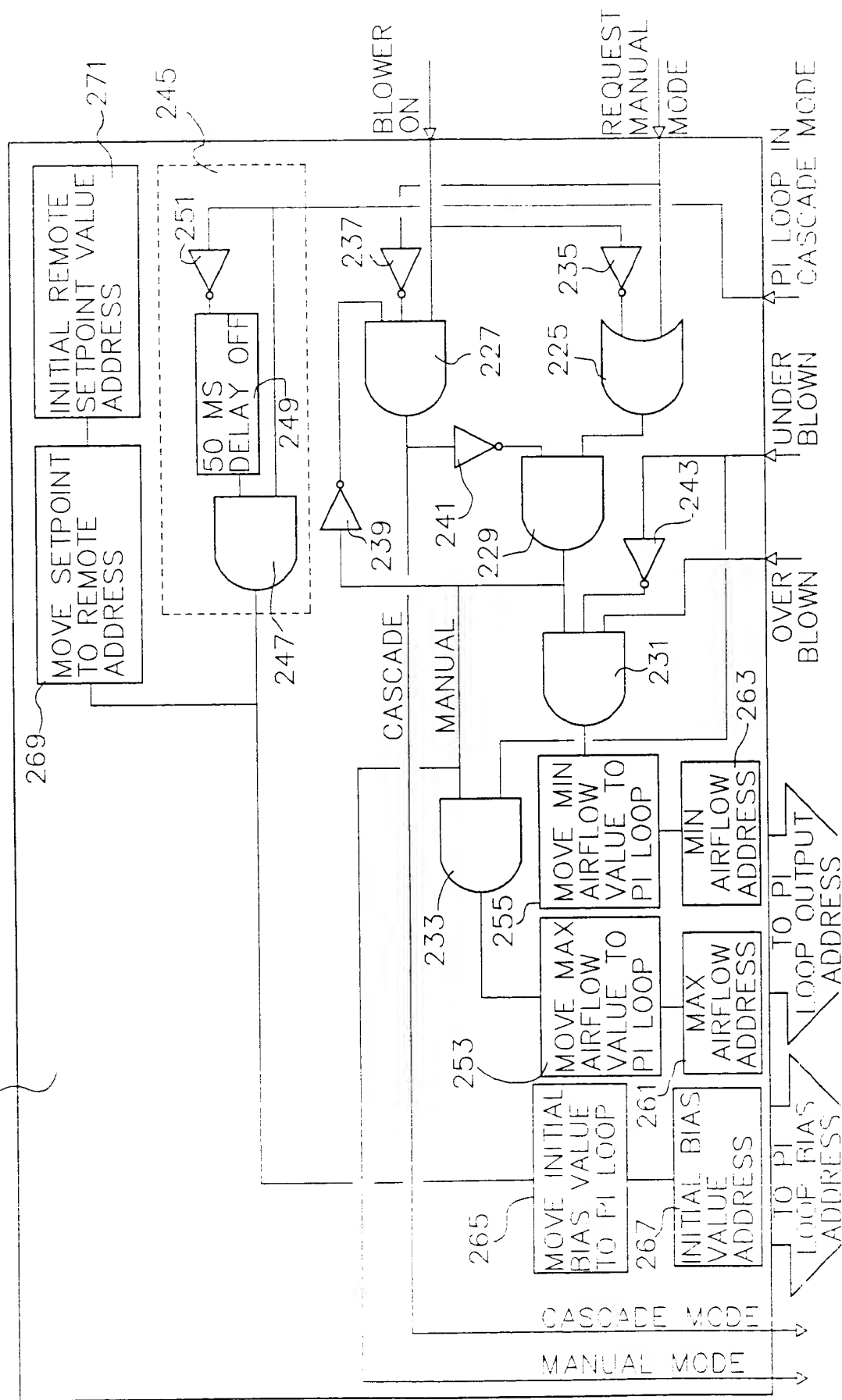


FIGURE 19

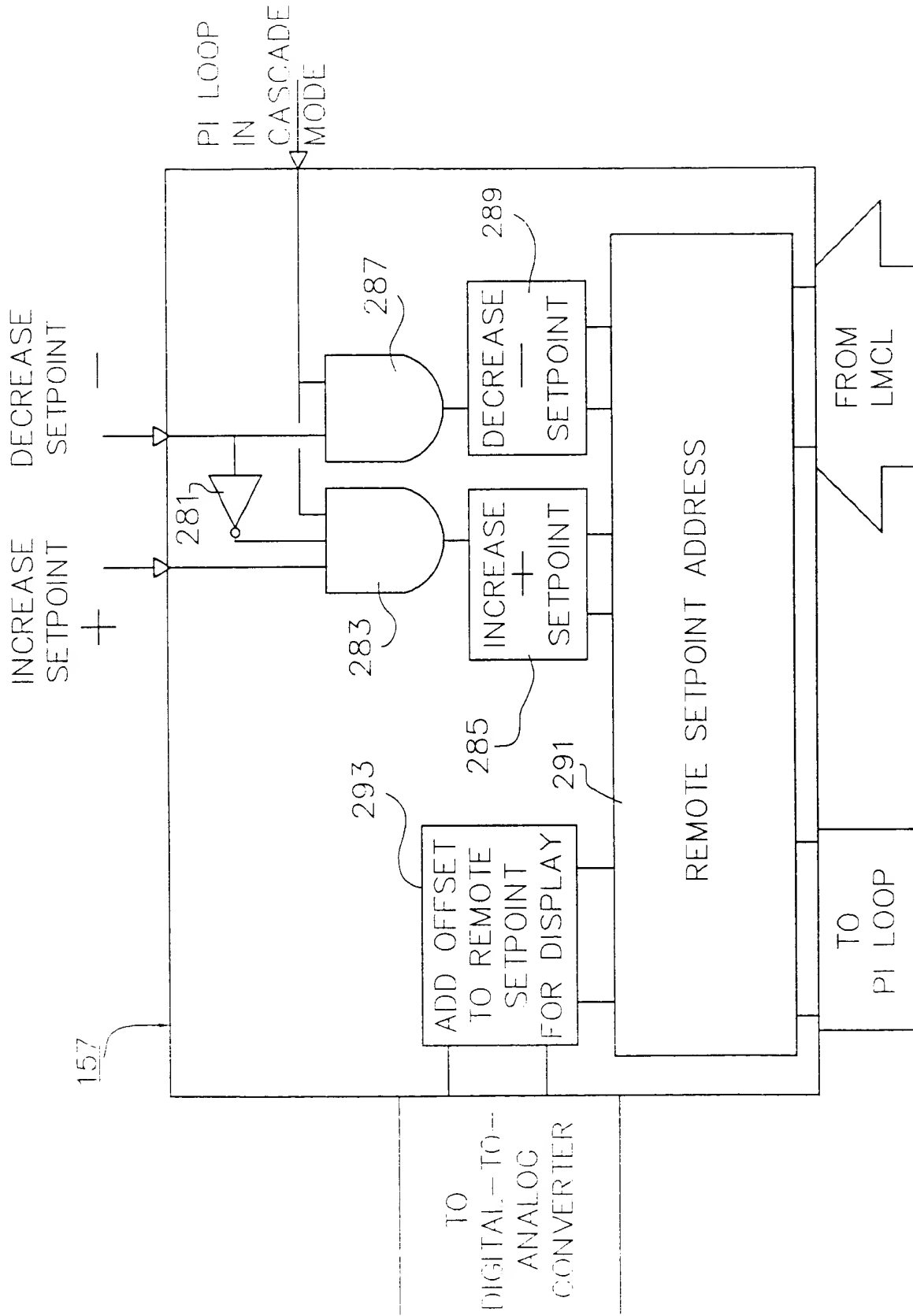


FIGURE 20

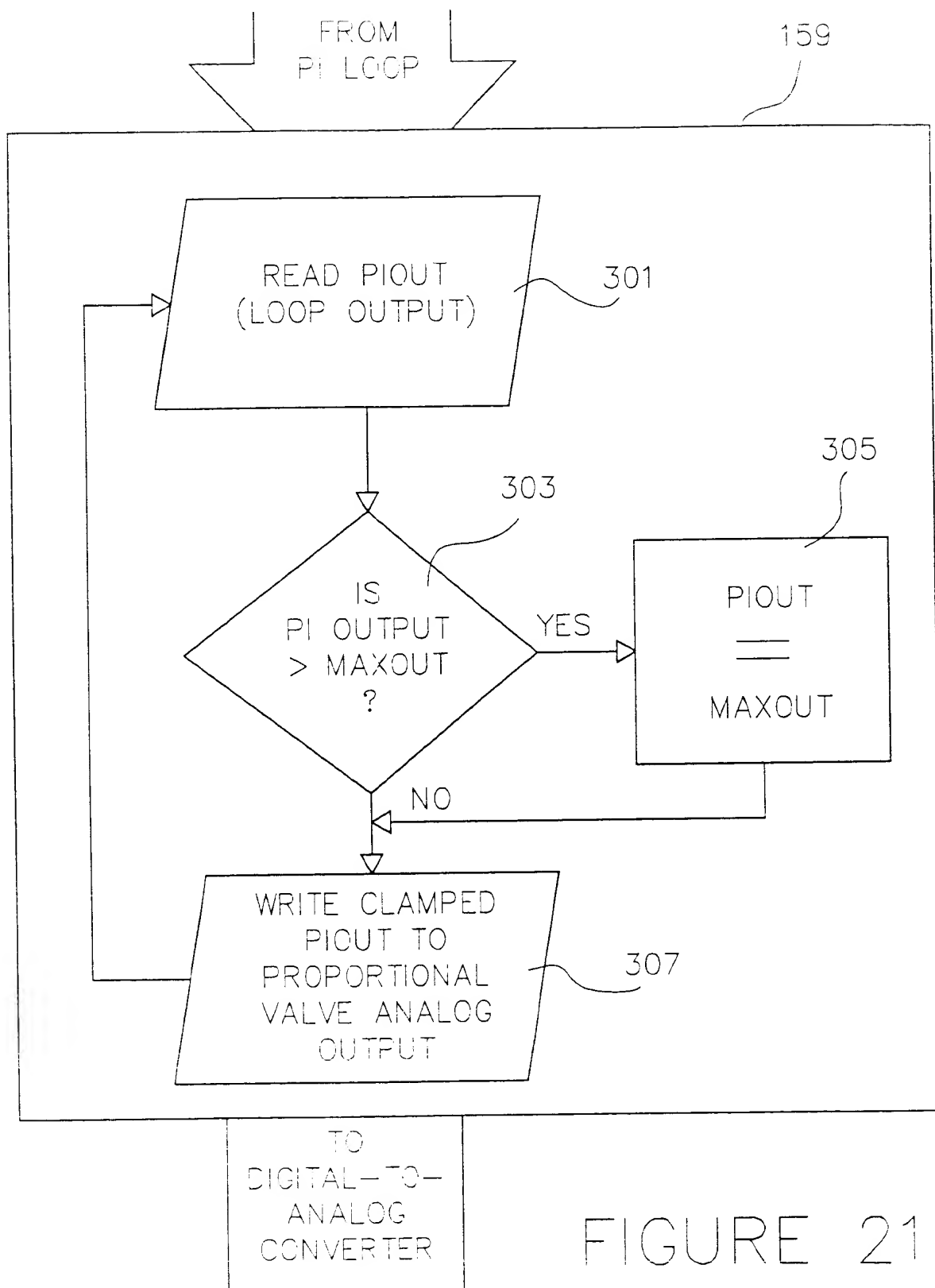


FIGURE 21

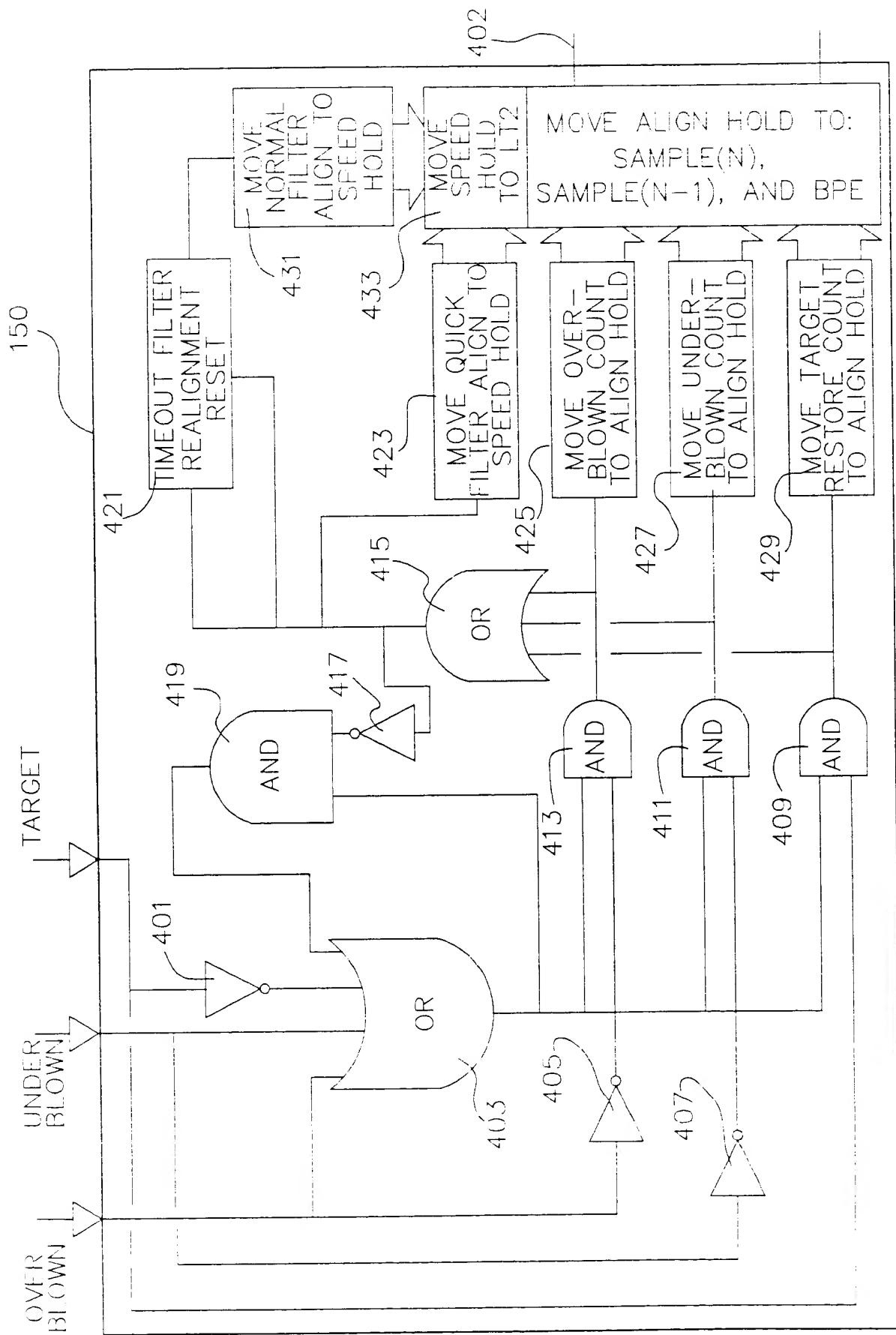
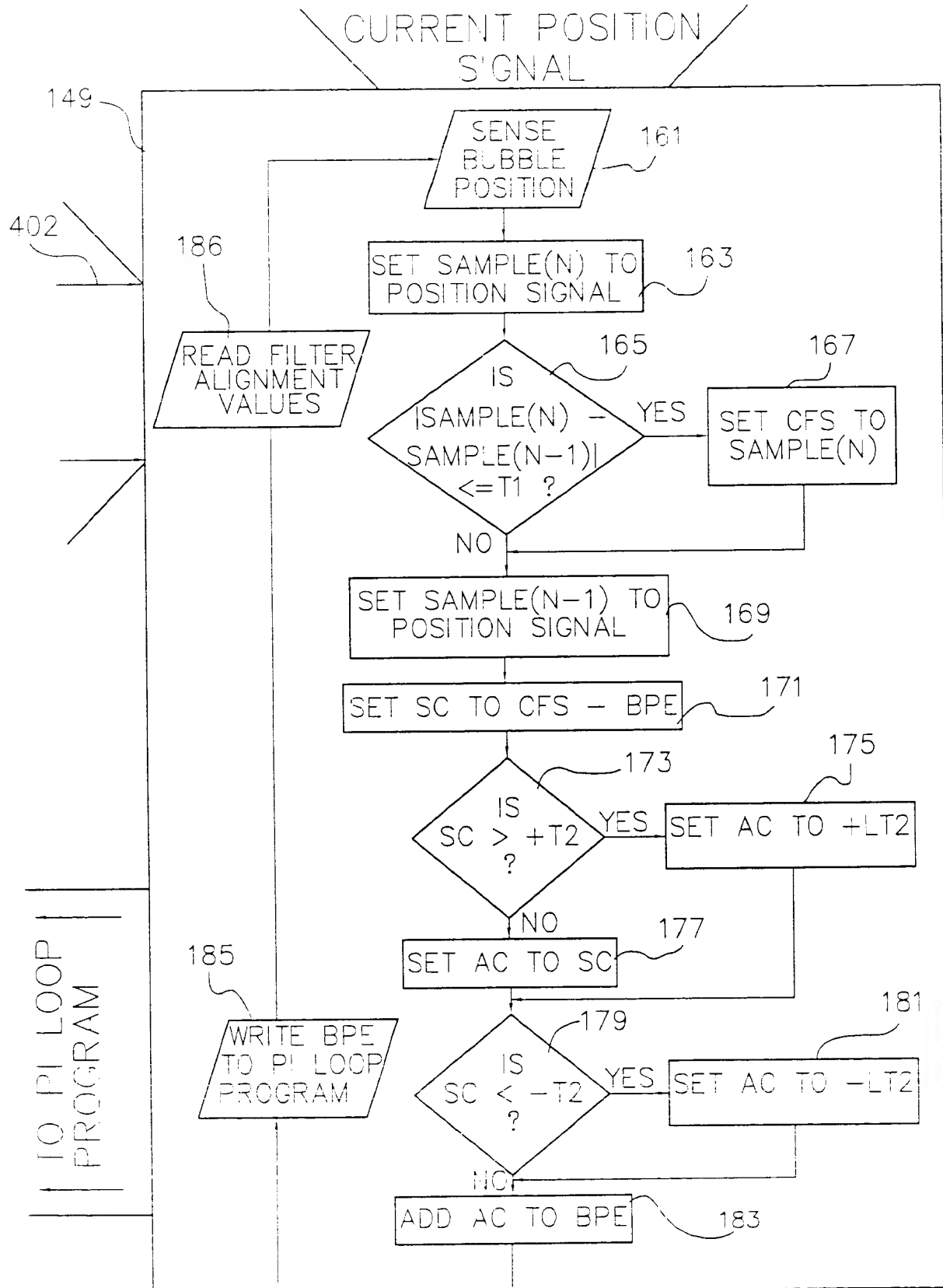


FIGURE 22





FROM FIGURE 23B  
OR FIGURE 23C

GOTO  
FIGURE 23B

FIGURE 23A

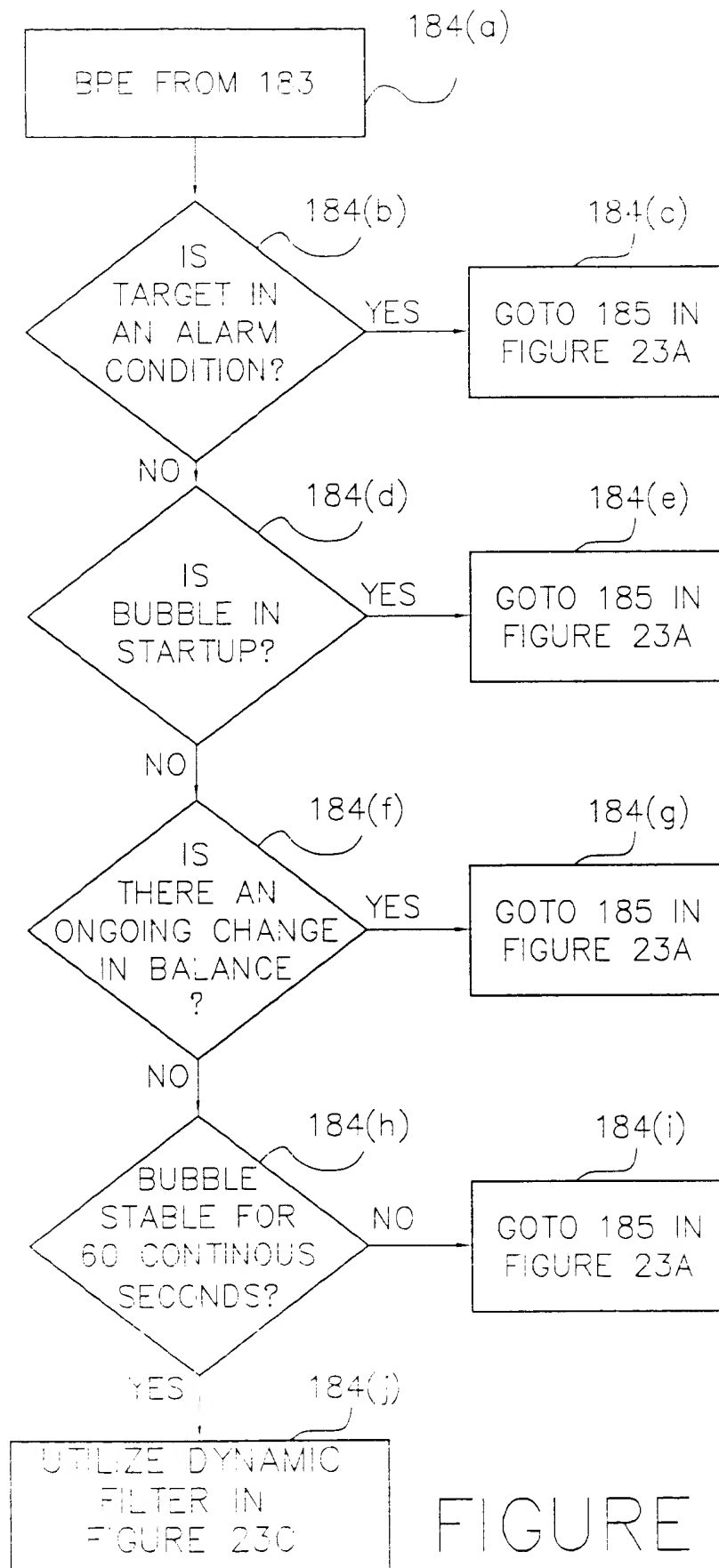


FIGURE 23B

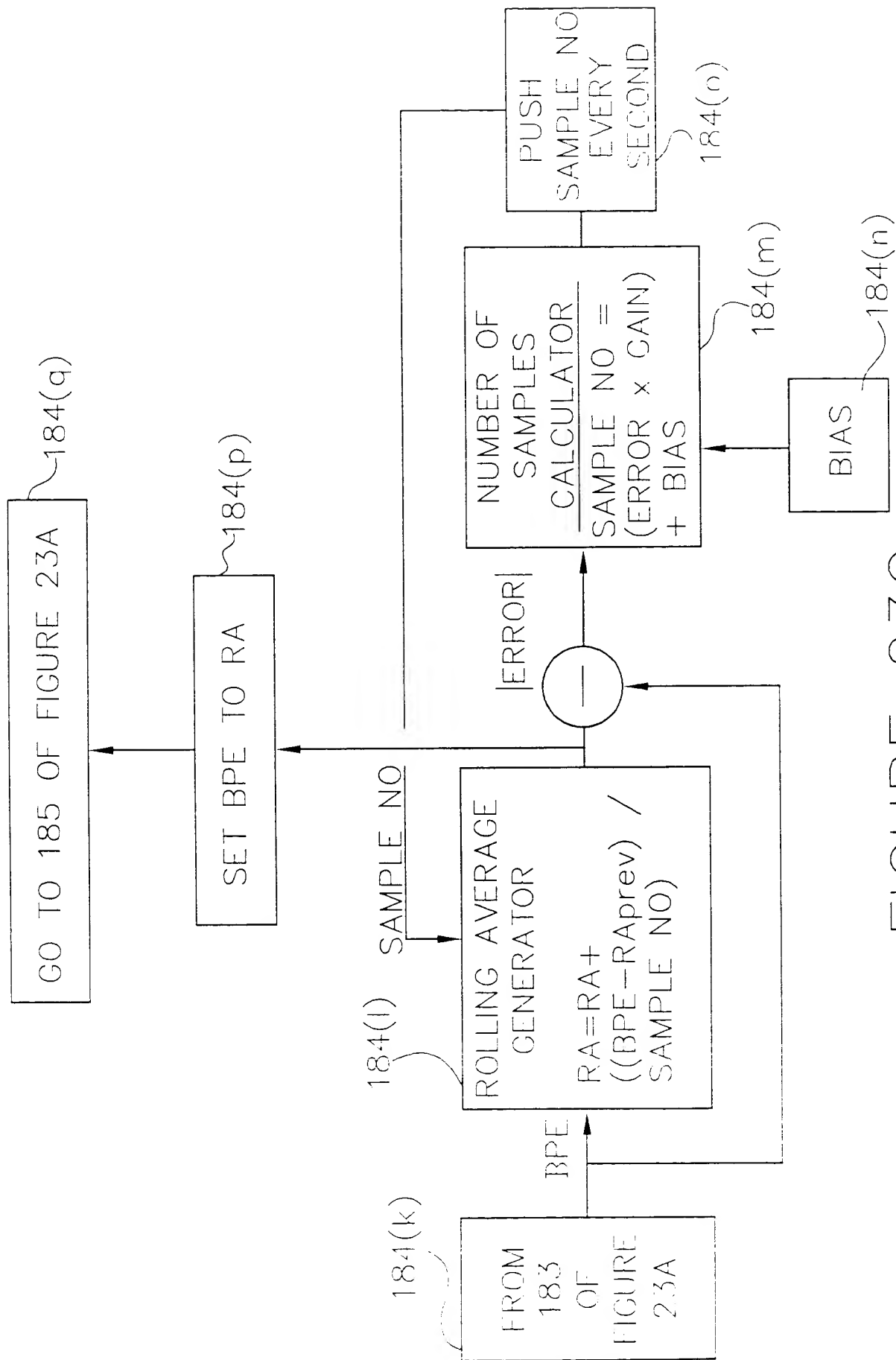


FIGURE 23C

# VARIOUS IBC SIGNALS WITHOUT DYNAMIC FILTER

184(s)

VALVE

BUBBLE  
POSITION

184(r)

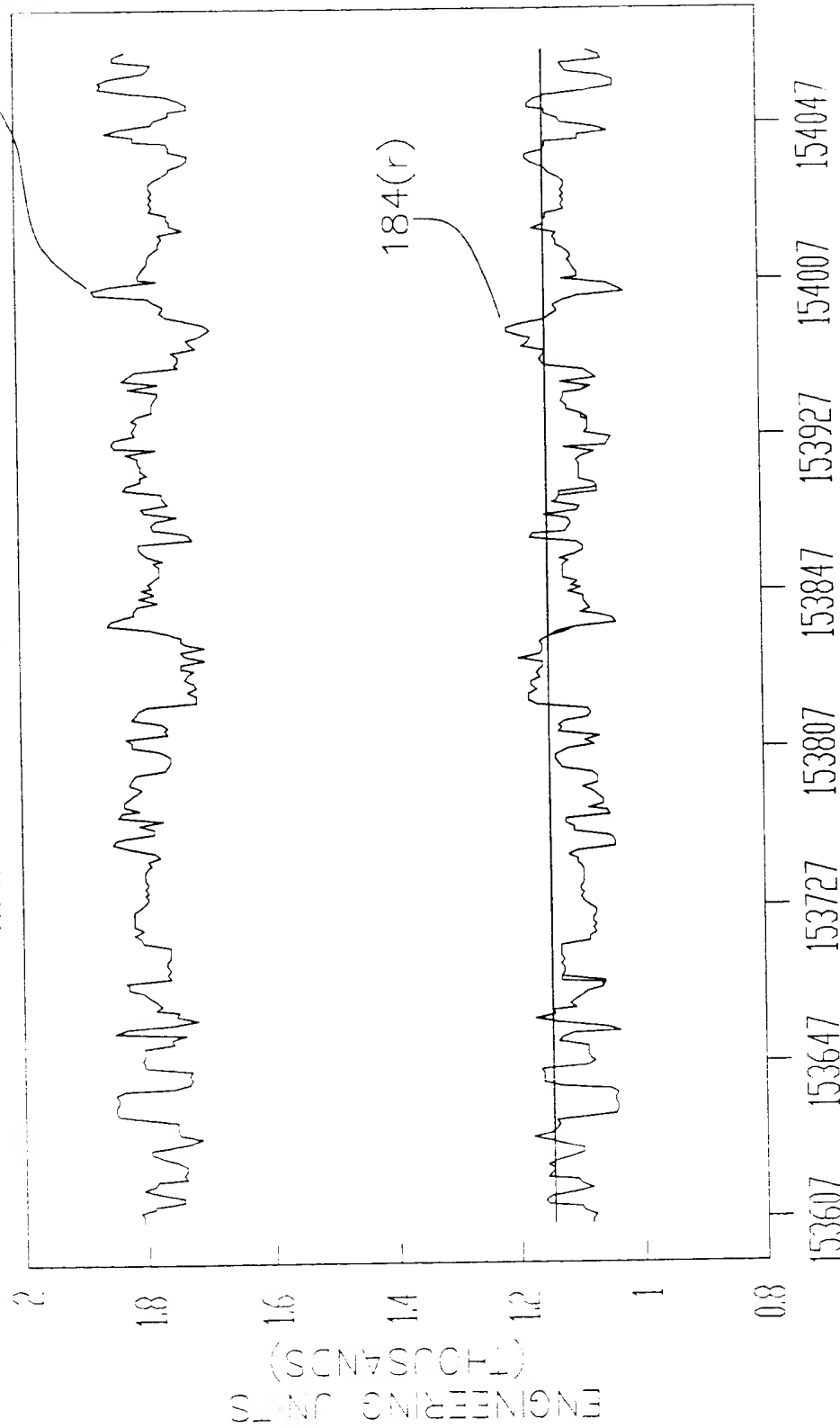


FIGURE 23D

# VARIOUS IBC SIGNALS

DYNAMIC FILTER COMPARISON

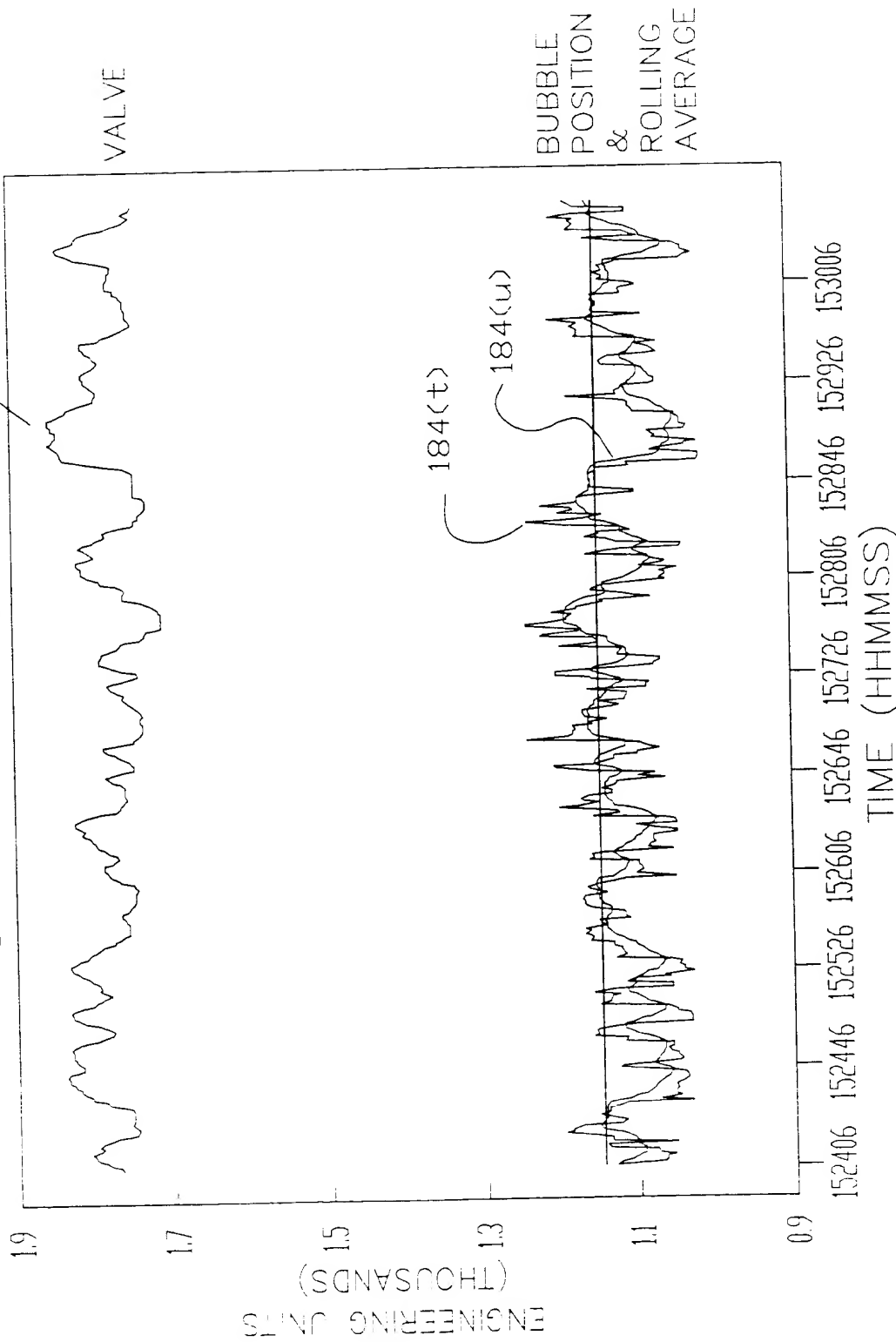


FIGURE 23E

# FREQUENCY DISTRIBUTION COMPARISON

# DYNAMIC FILTER VS. BPE

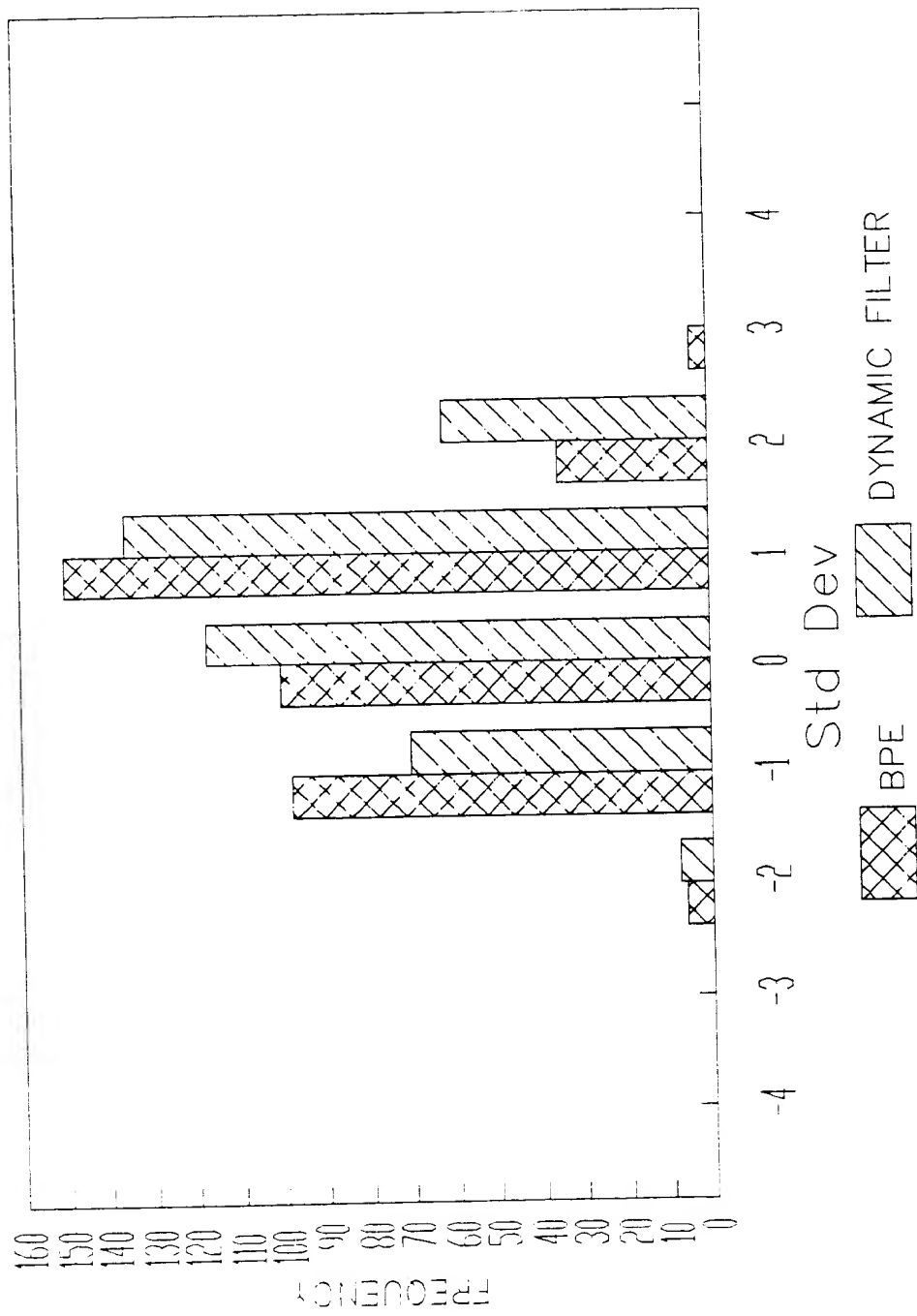


FIGURE 23F

FIGURE 23G

# VARIOUS IBC SIGNALS START-UP WITH DYNAMIC FILTER

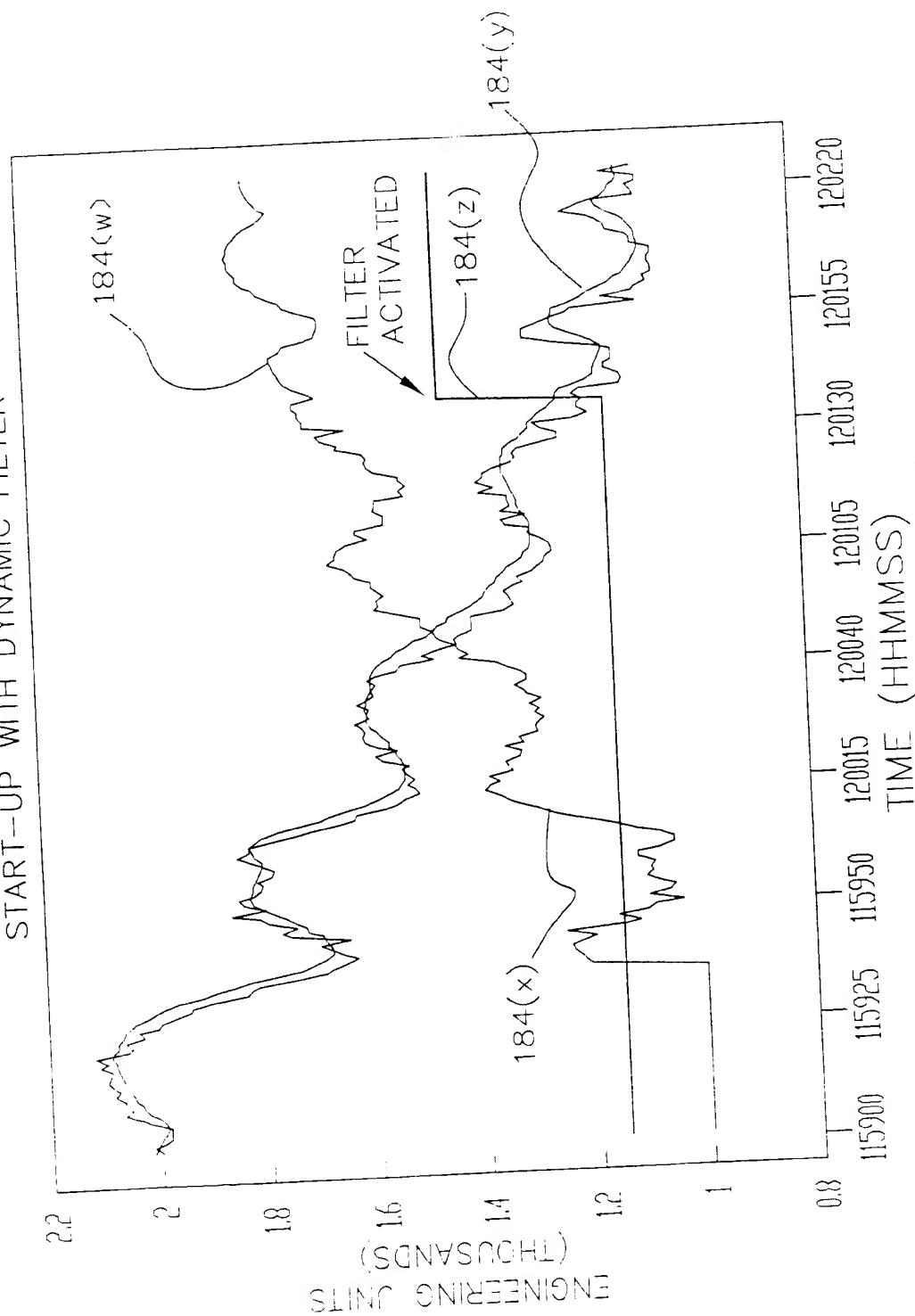
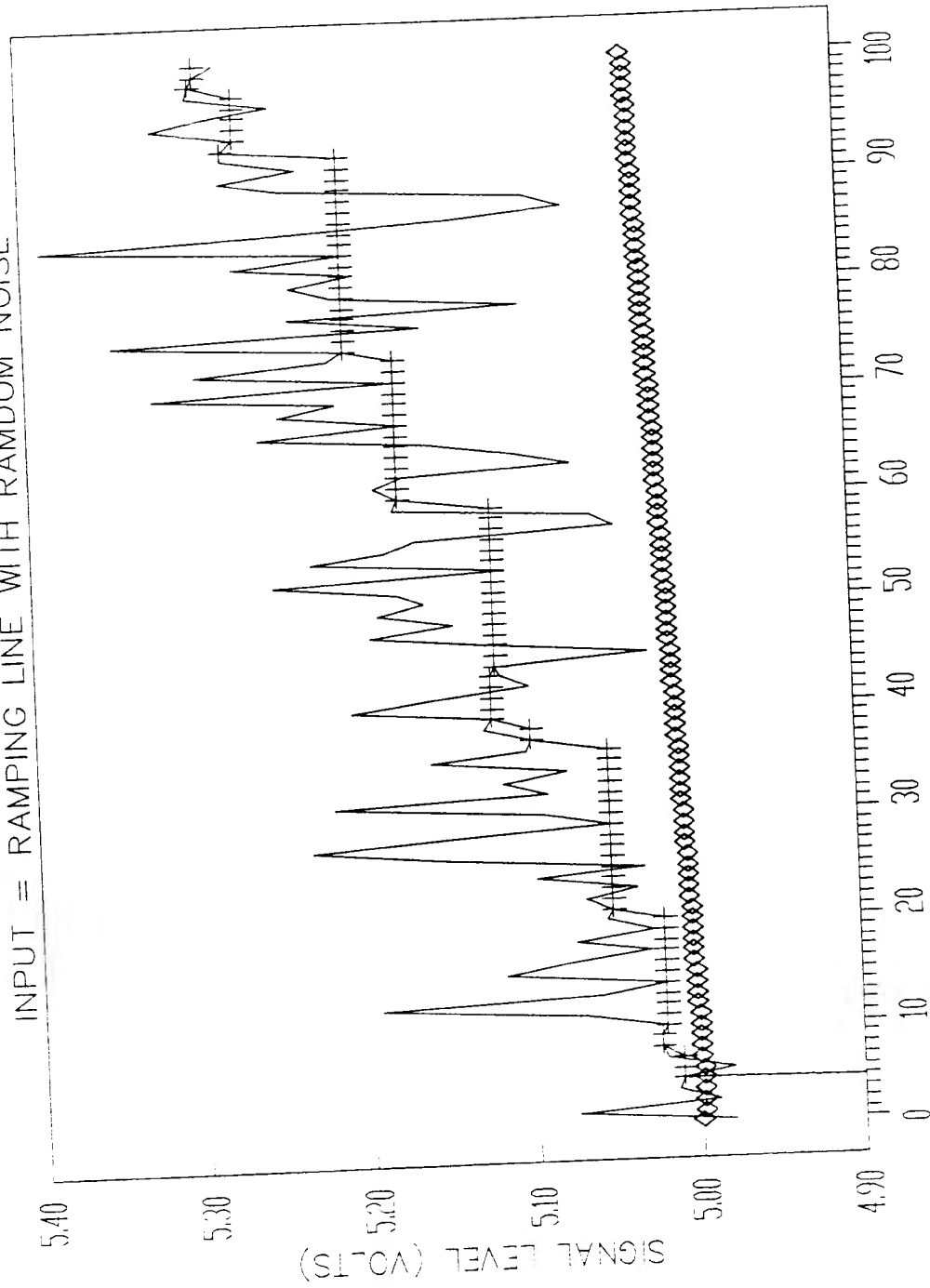


FIGURE 23G

# IS-IBC1 FILTER SIMULATION

INPUT = RAMPING LINE WITH RANDOM NOISE



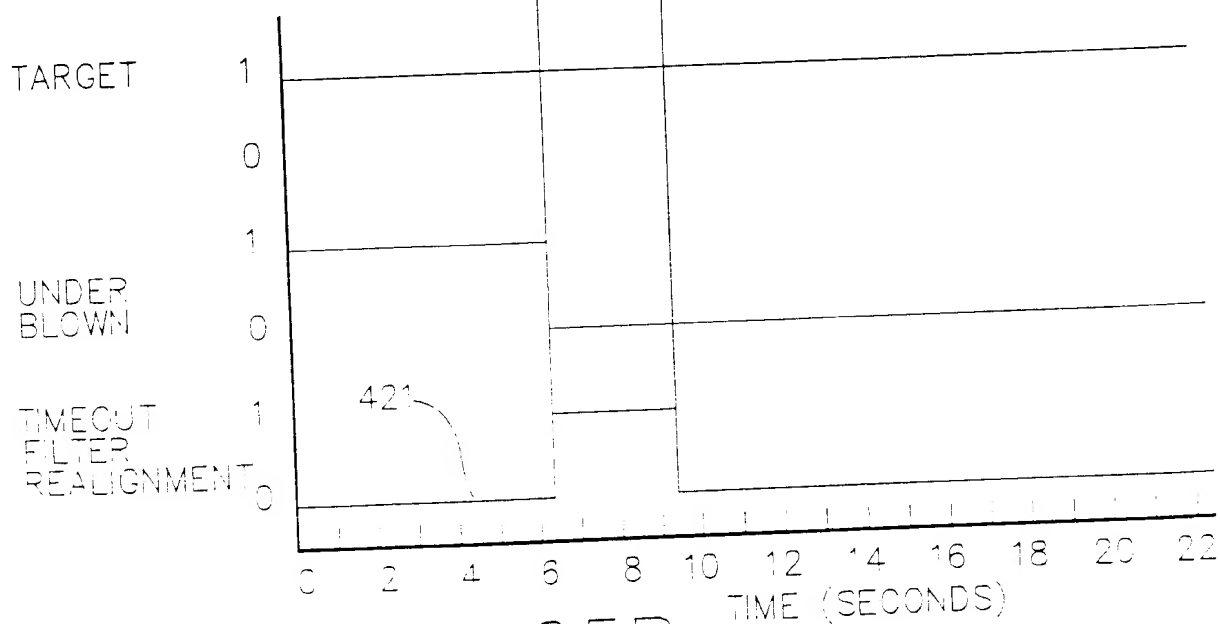
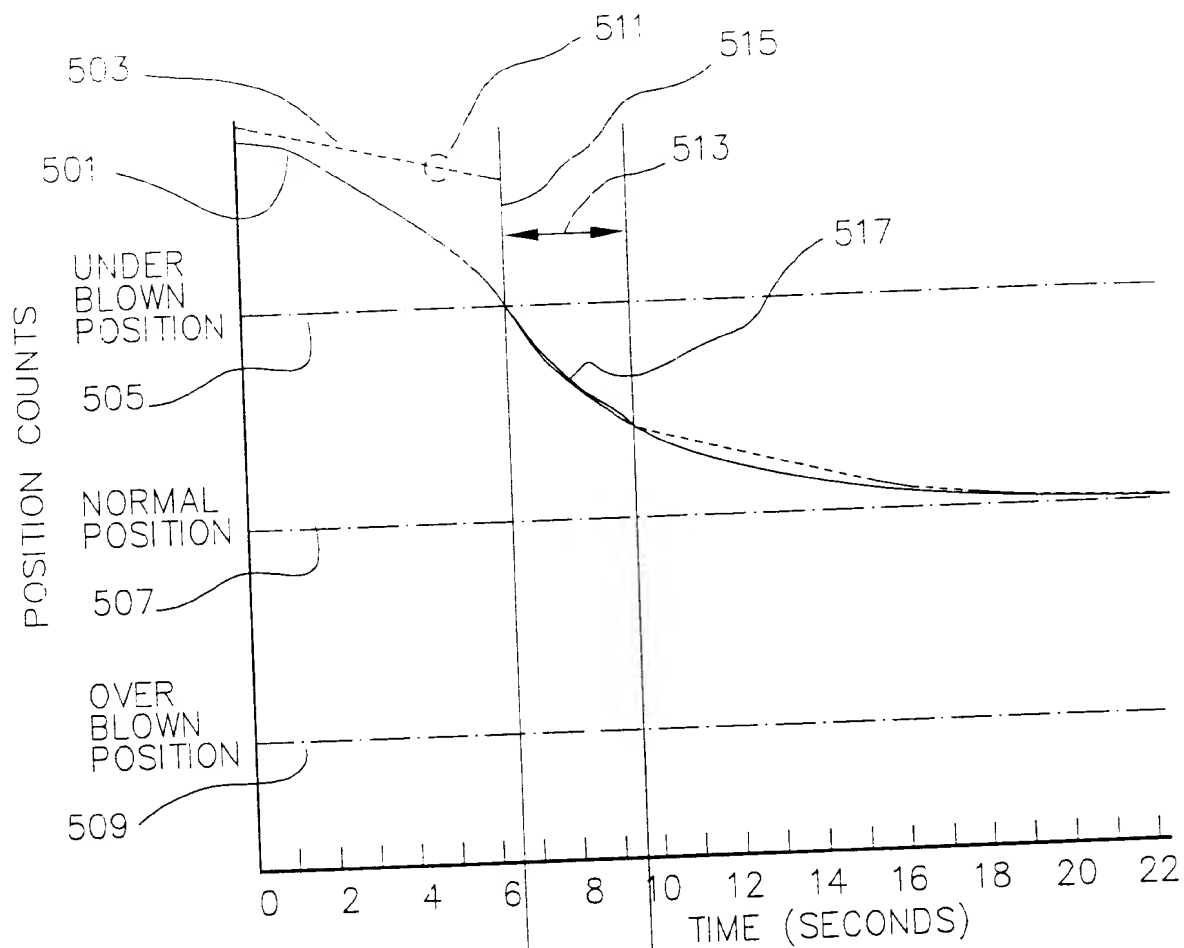
TIME SAMPLE (.034 SECONDS)

-INPUT +CFS ◇BPE

FIGURE 24

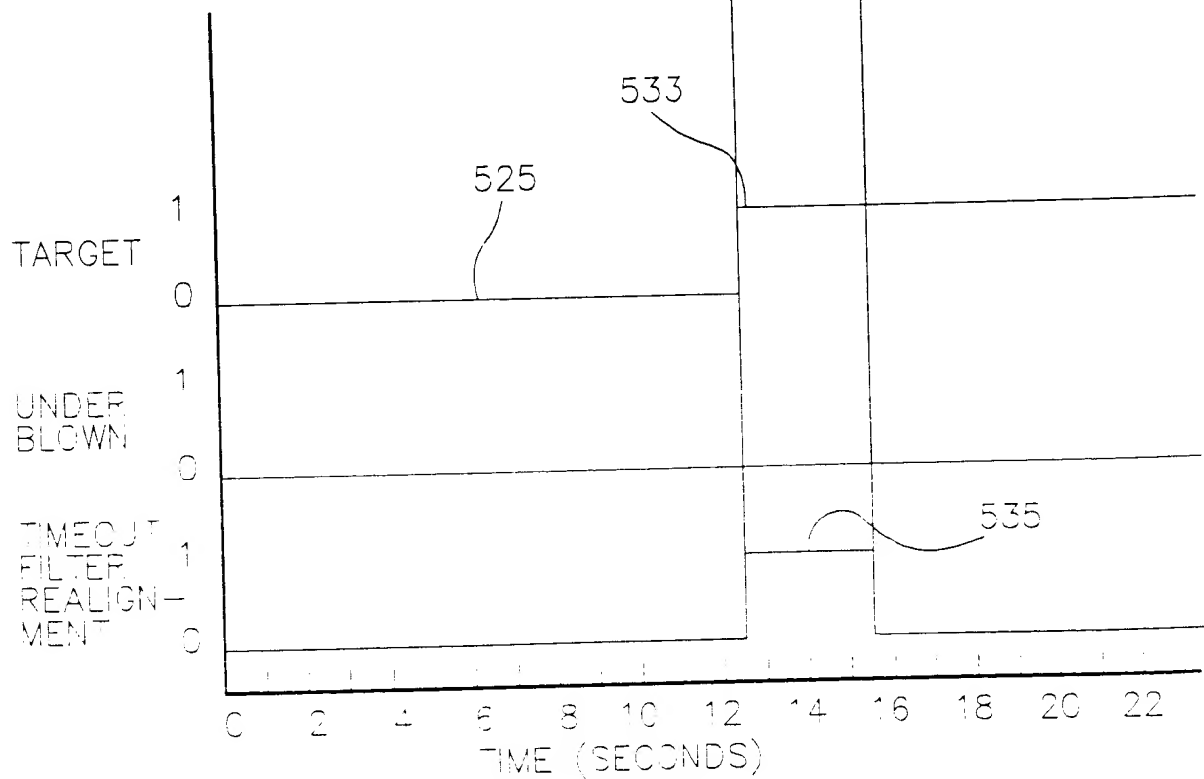
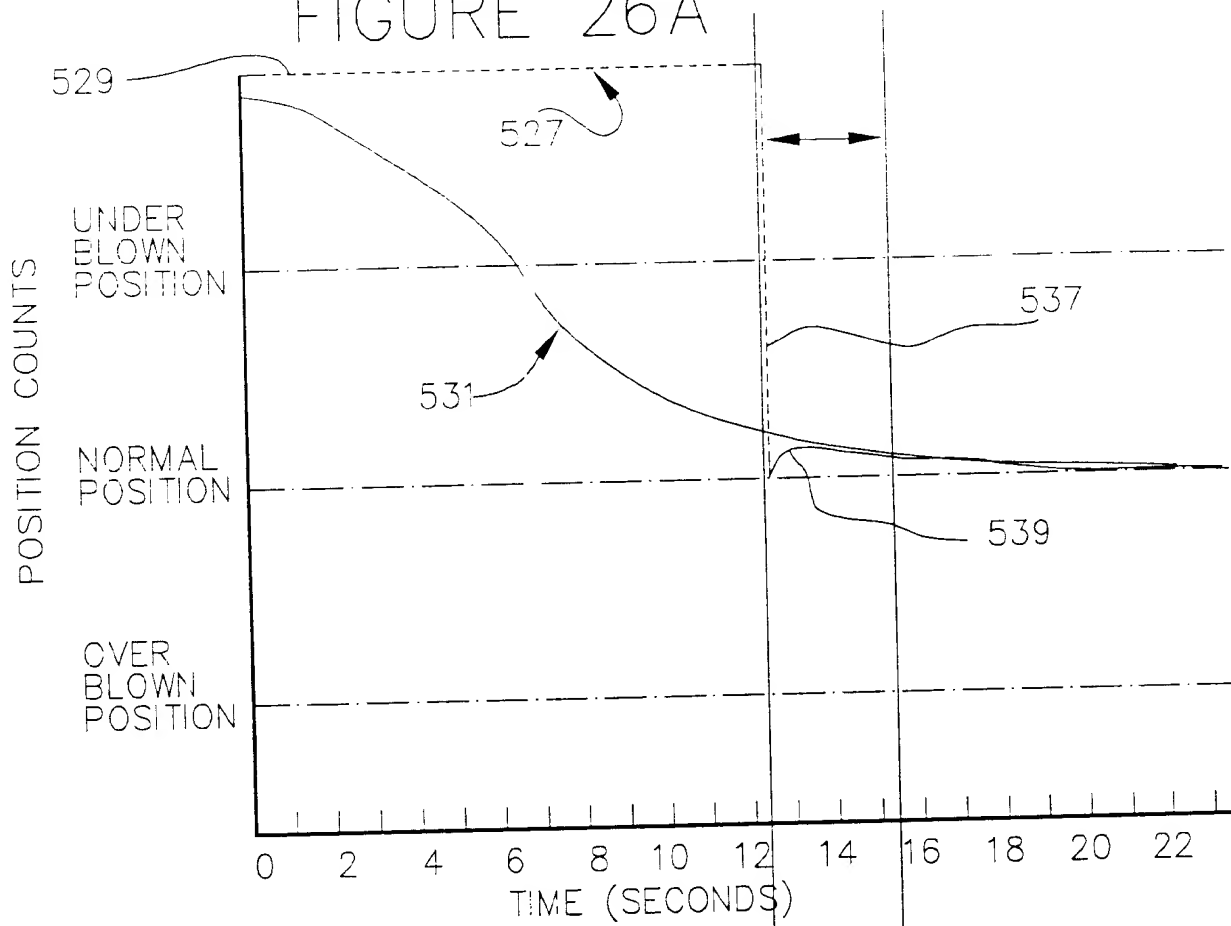


# FIGURE 25A

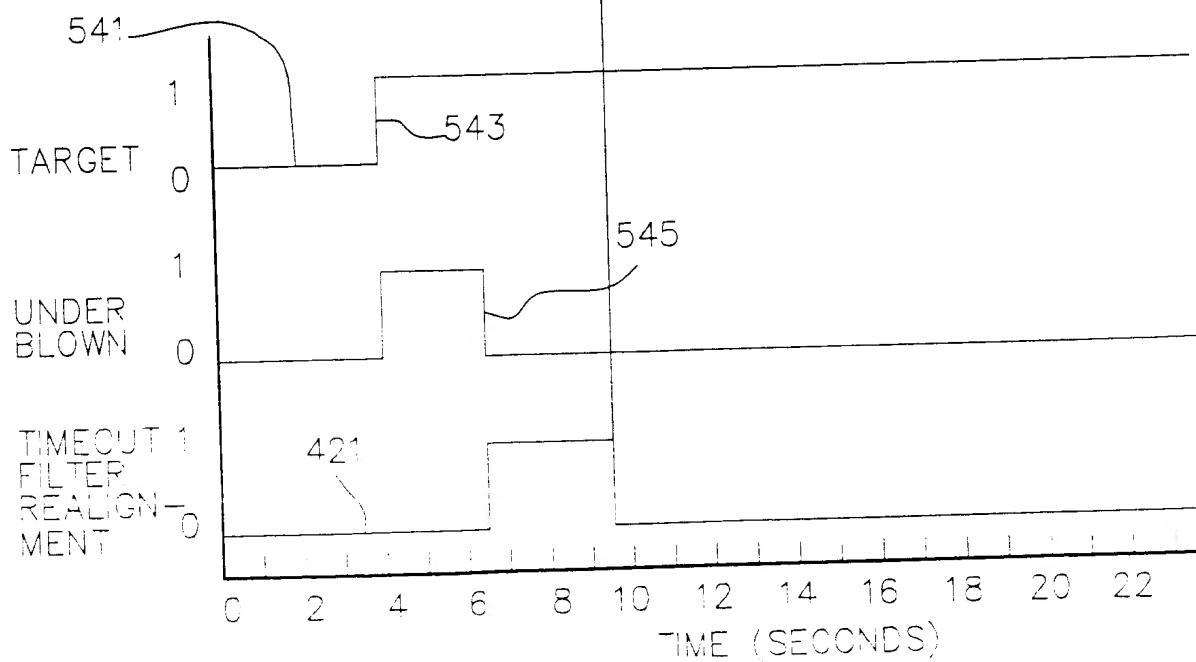
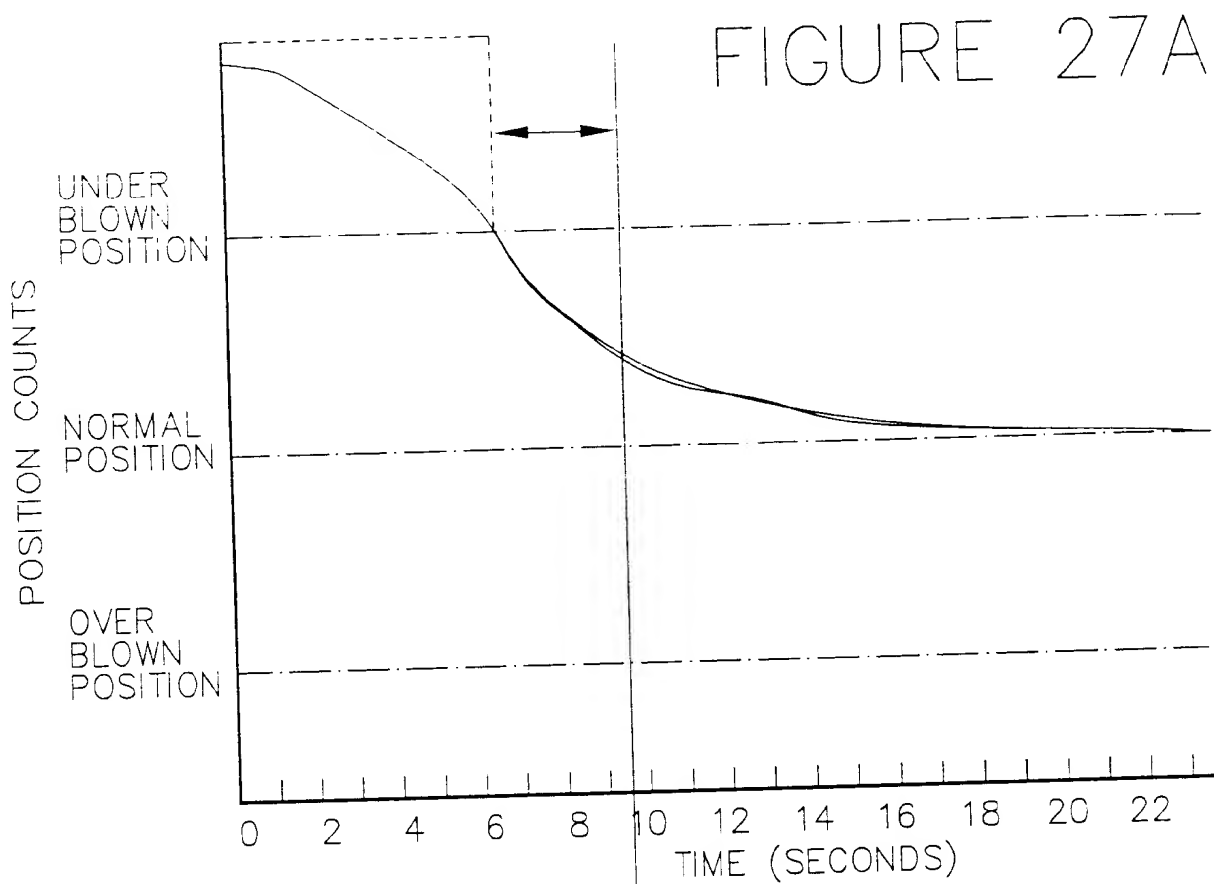


# FIGURE 25B

# FIGURE 26A

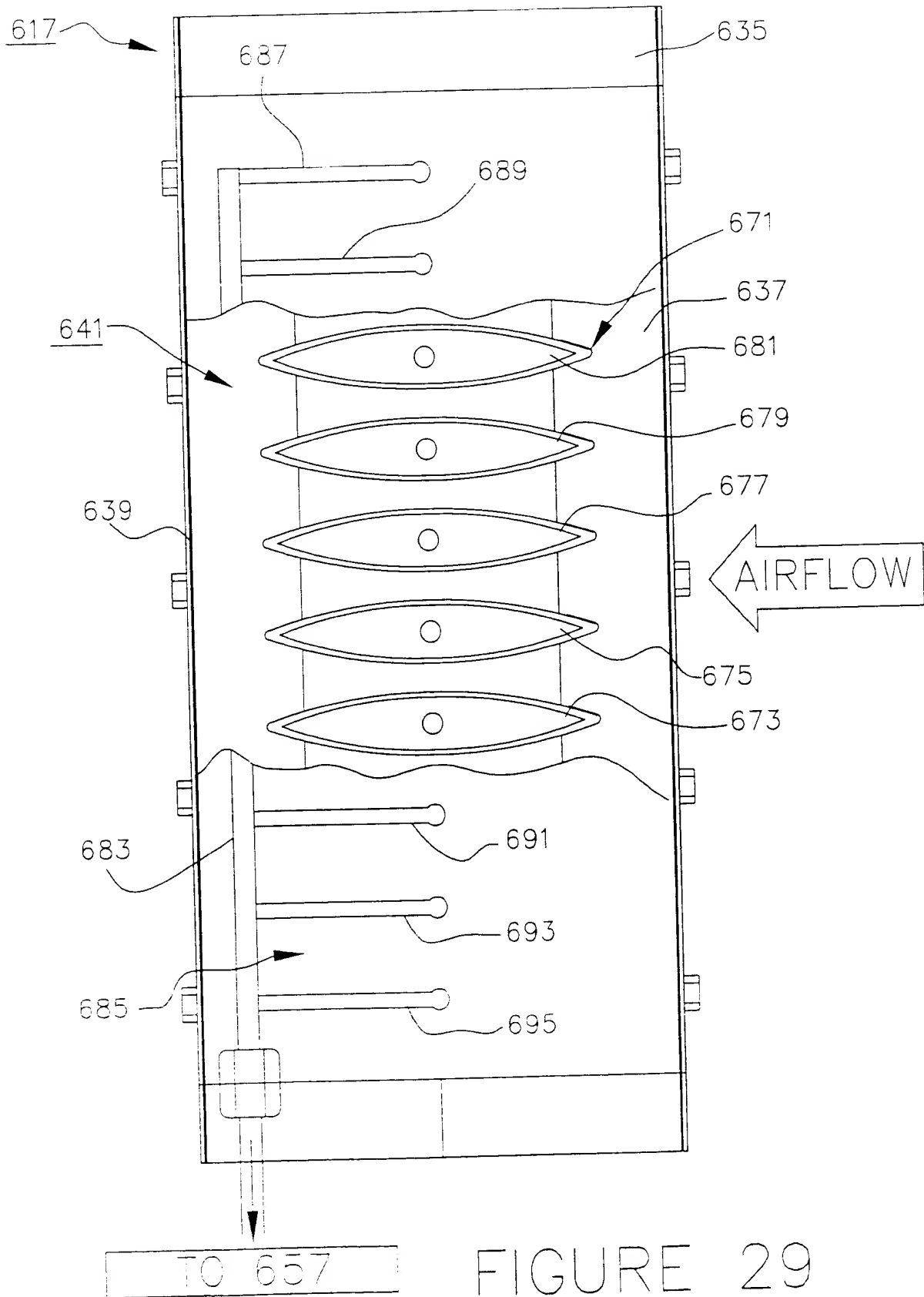


# FIGURE 26B



# FIGURE 27B





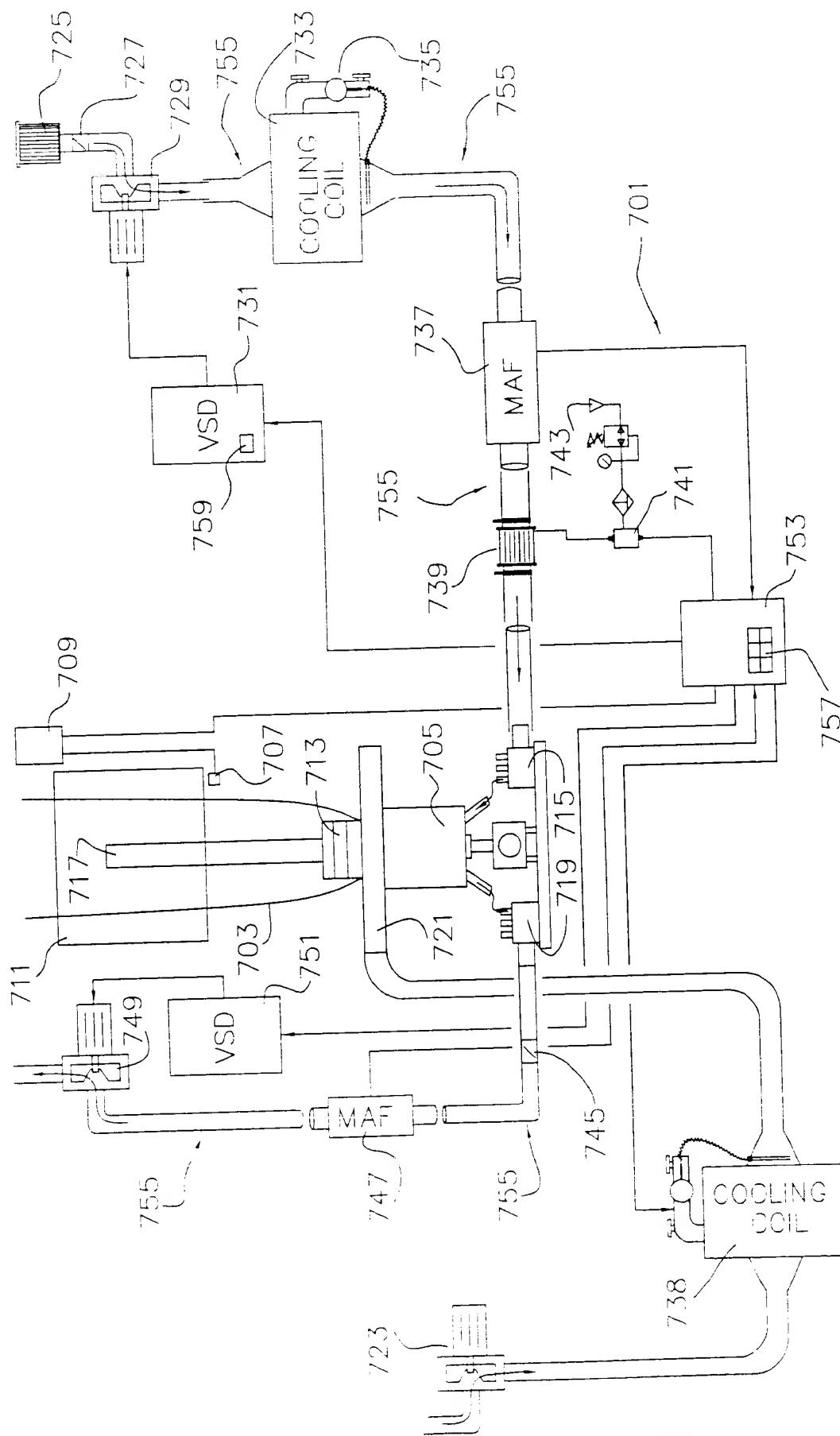


FIGURE 30

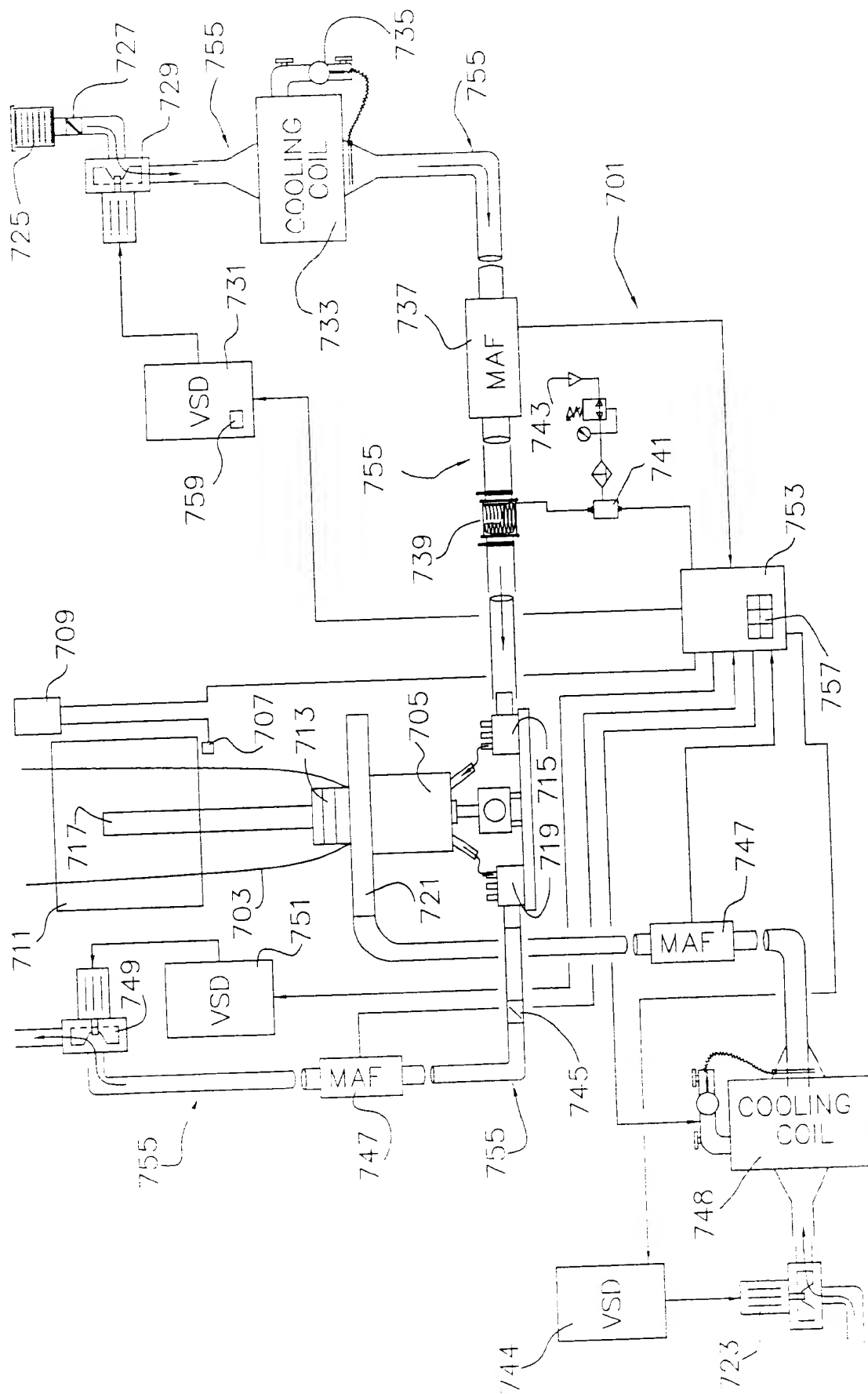


FIGURE 31

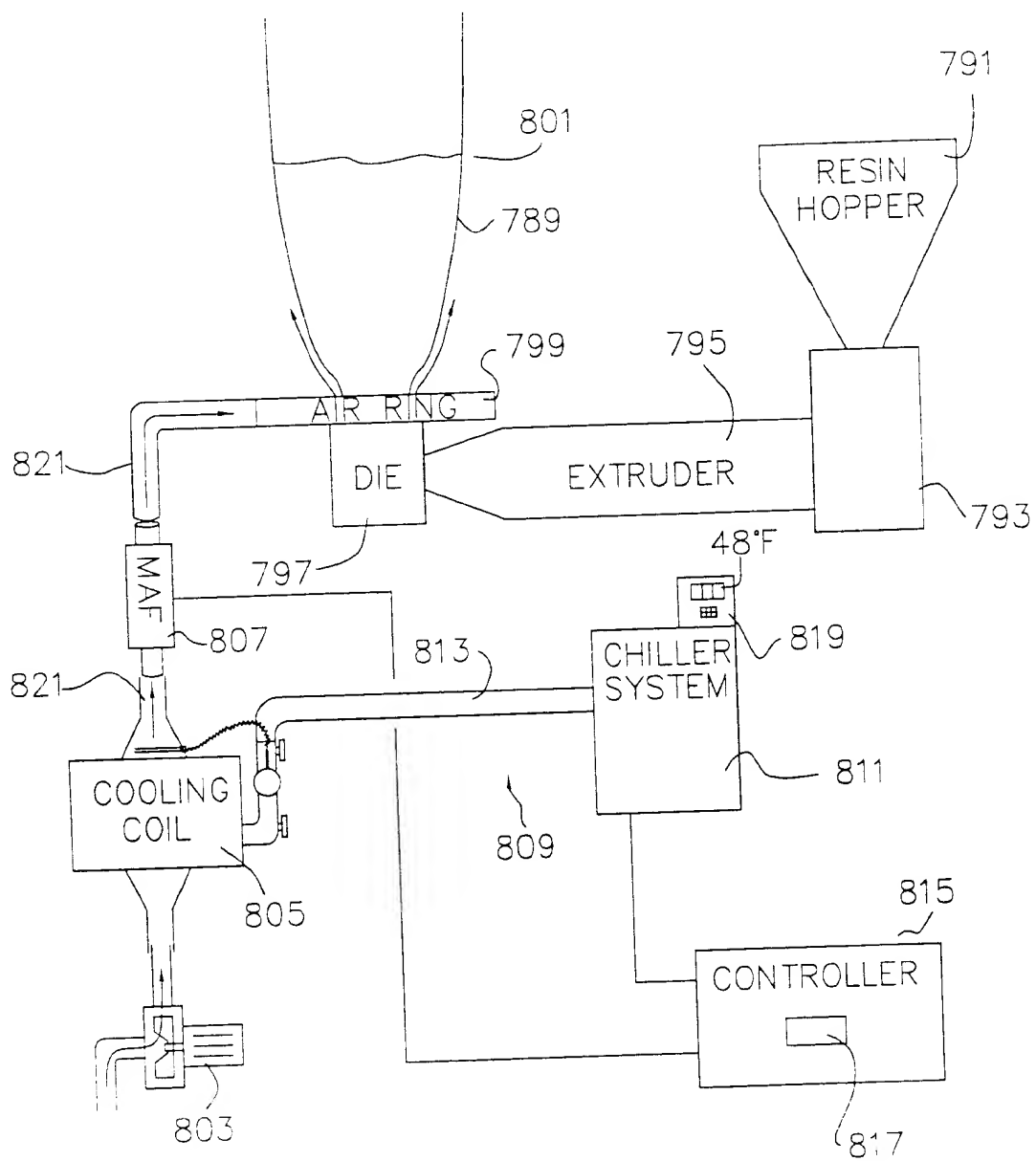


FIGURE 32



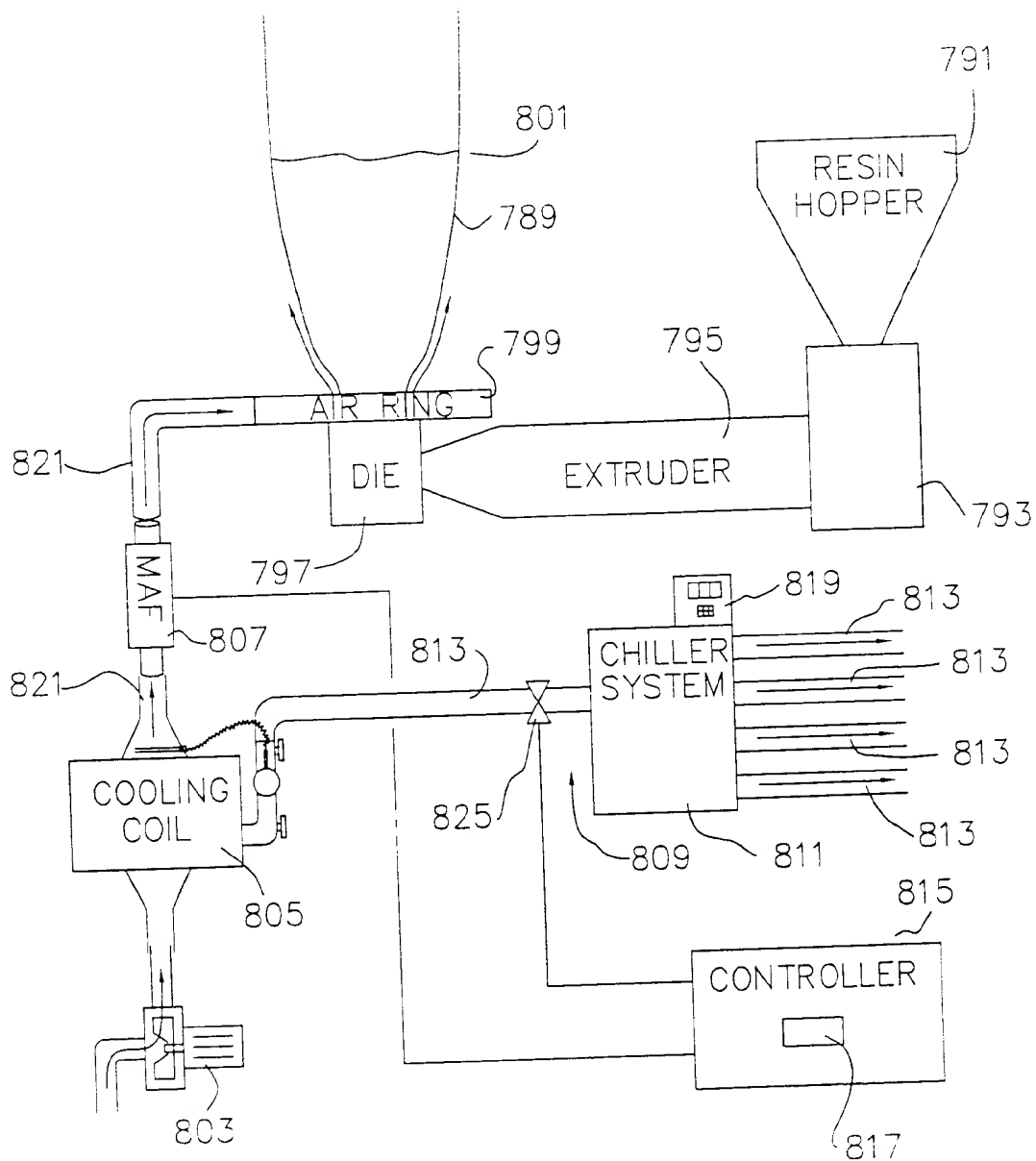


FIGURE 33

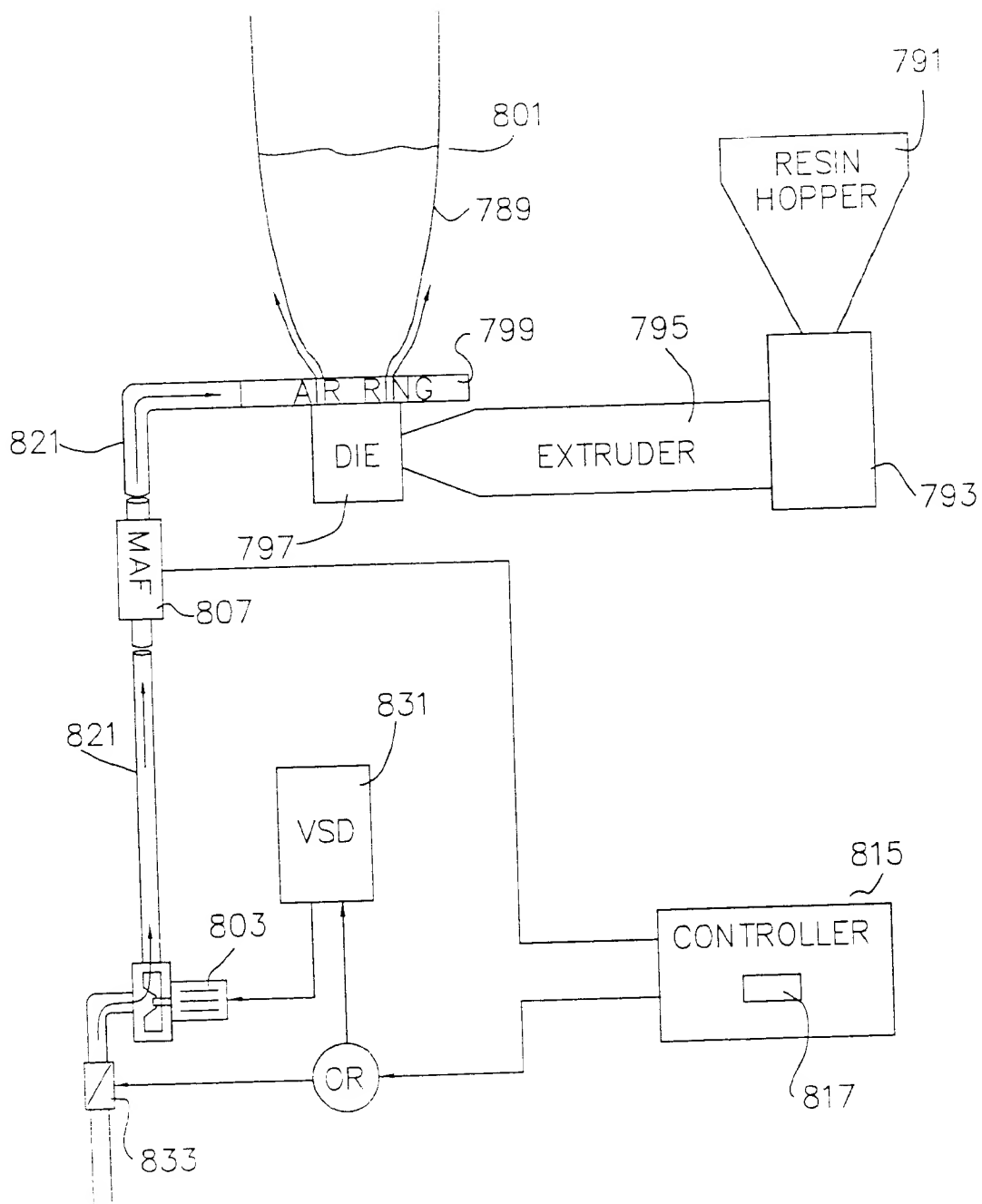


FIGURE 34

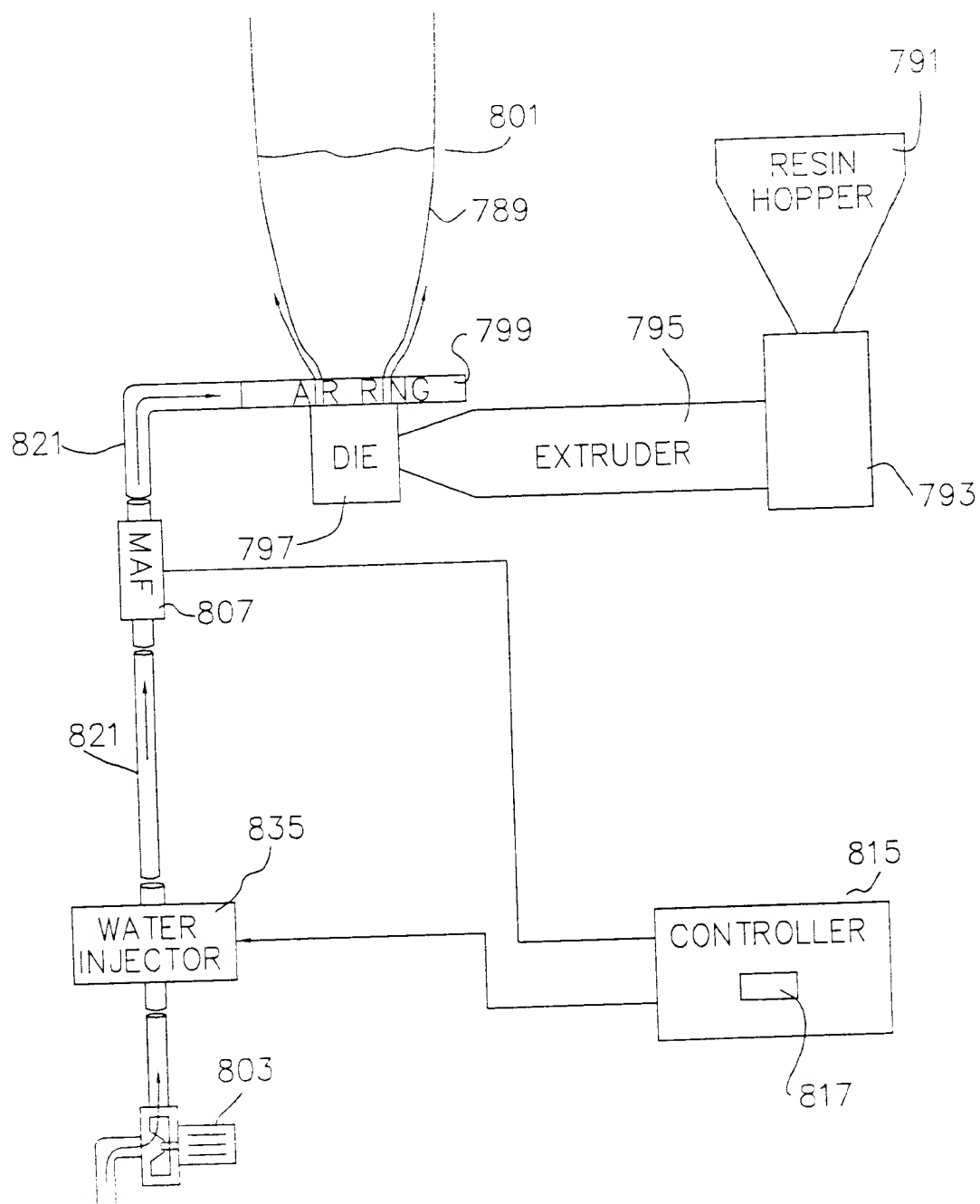


FIGURE 35

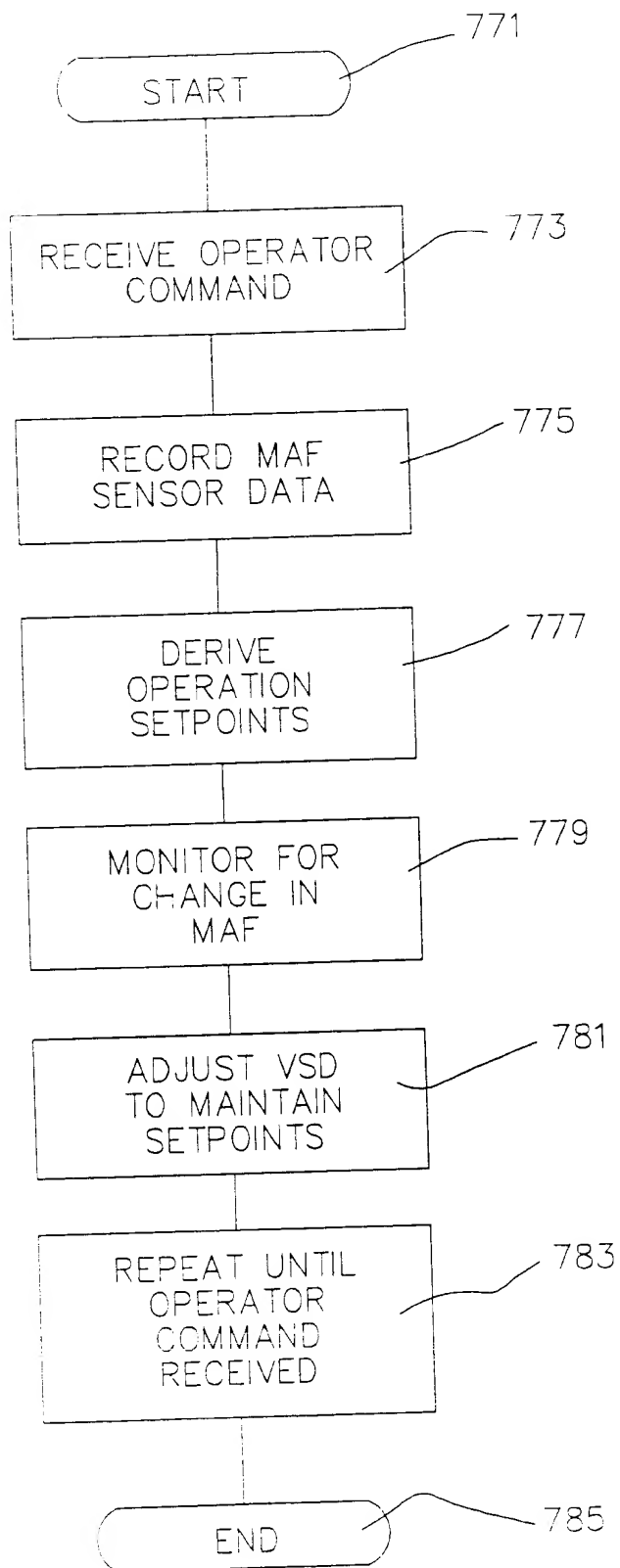


FIGURE 36

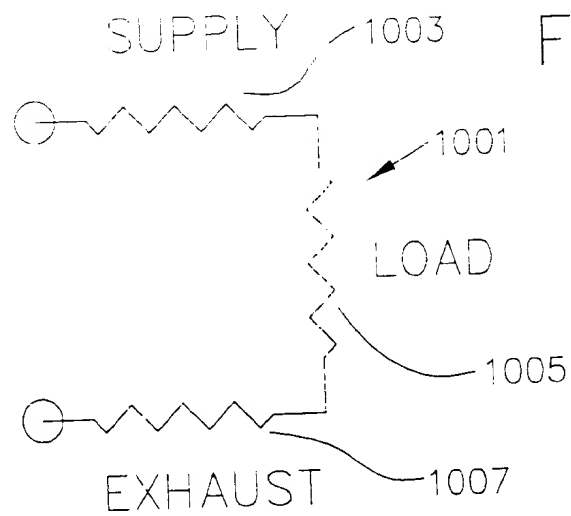


FIGURE 37A  
(PRIOR ART)

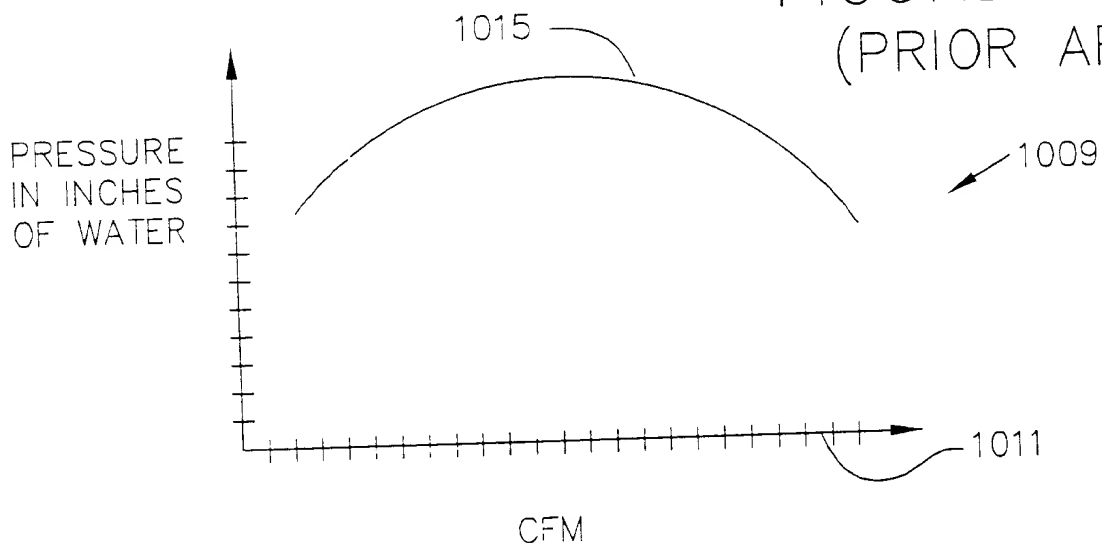


FIGURE 37B  
(PRIOR ART)

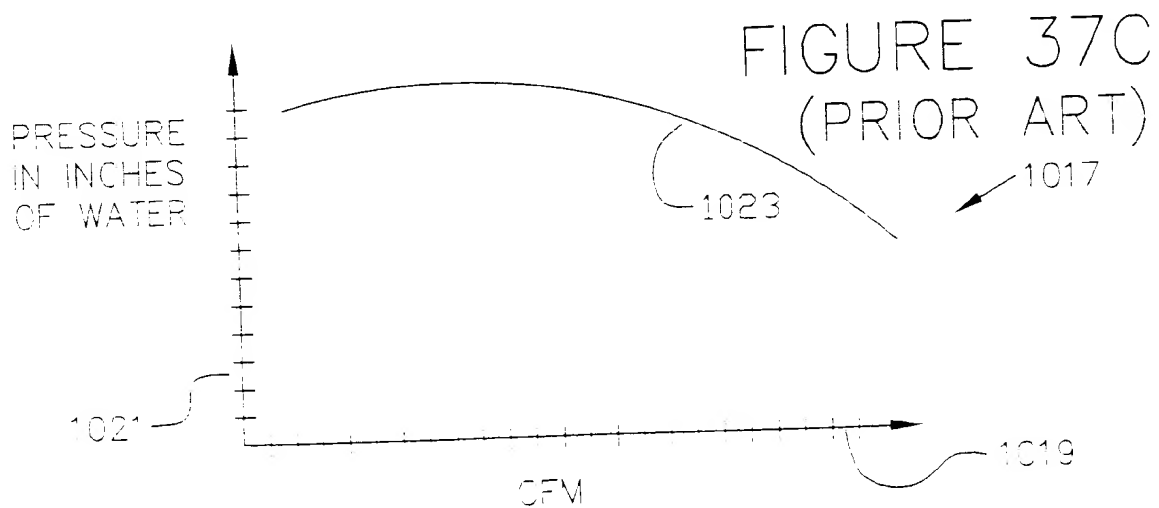


FIGURE 37C  
(PRIOR ART)

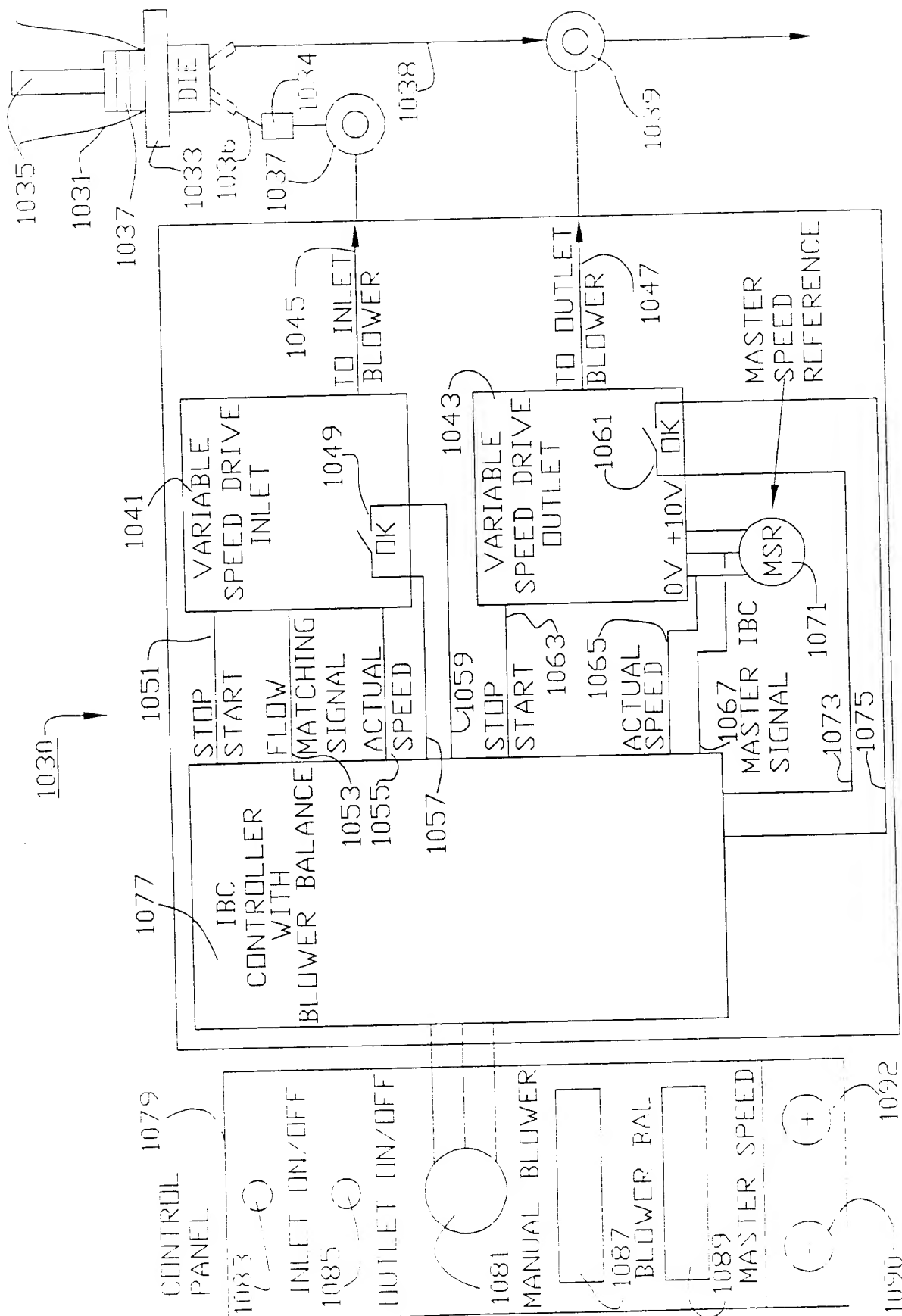


FIGURE 37D

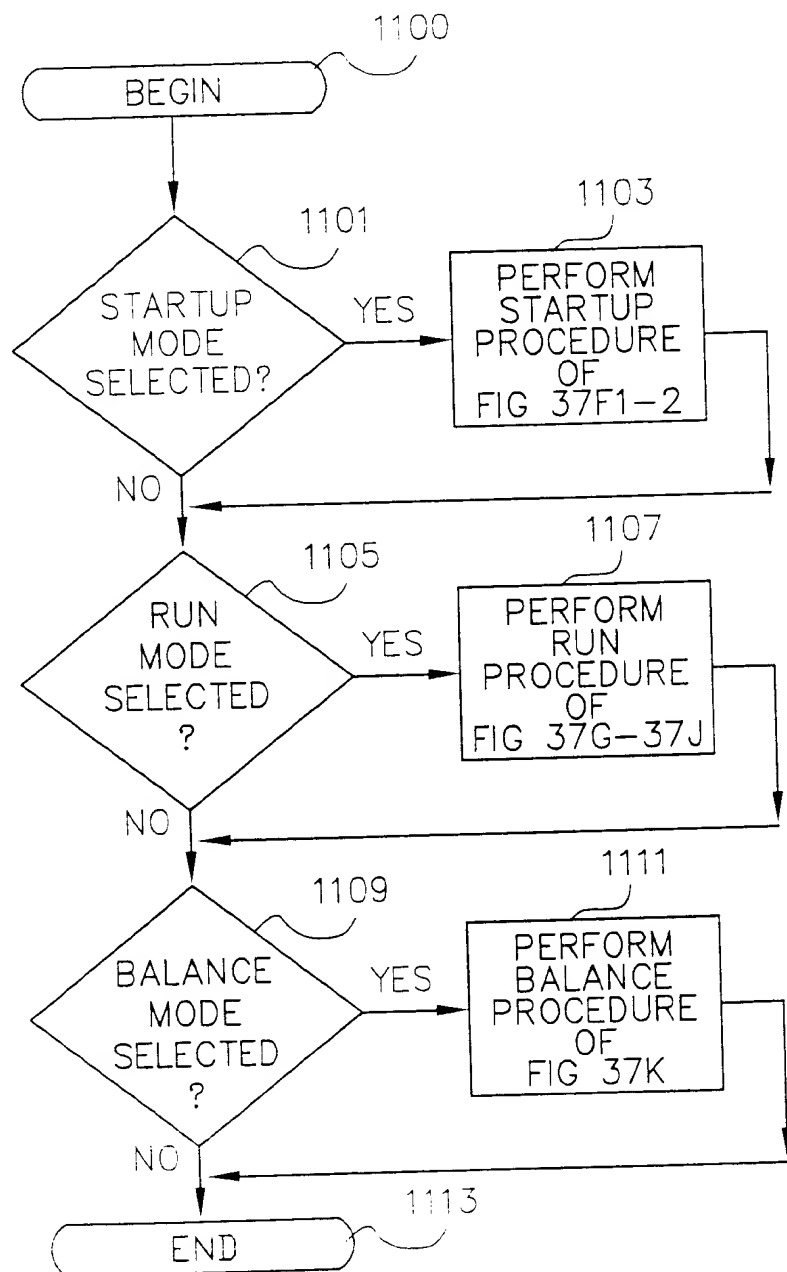


FIGURE 37E

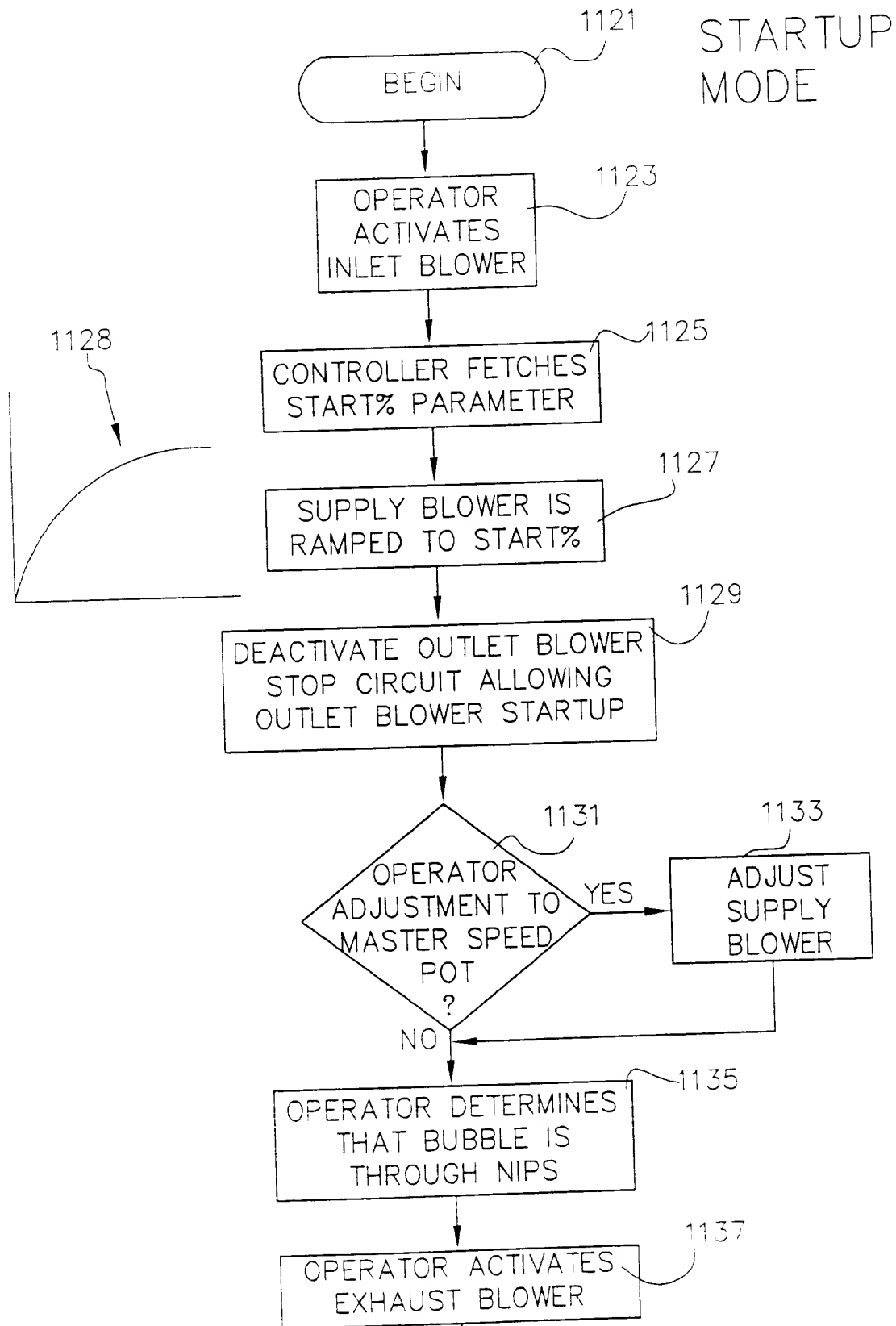


FIGURE 37F1



STARTUP  
MODE CONTINUED

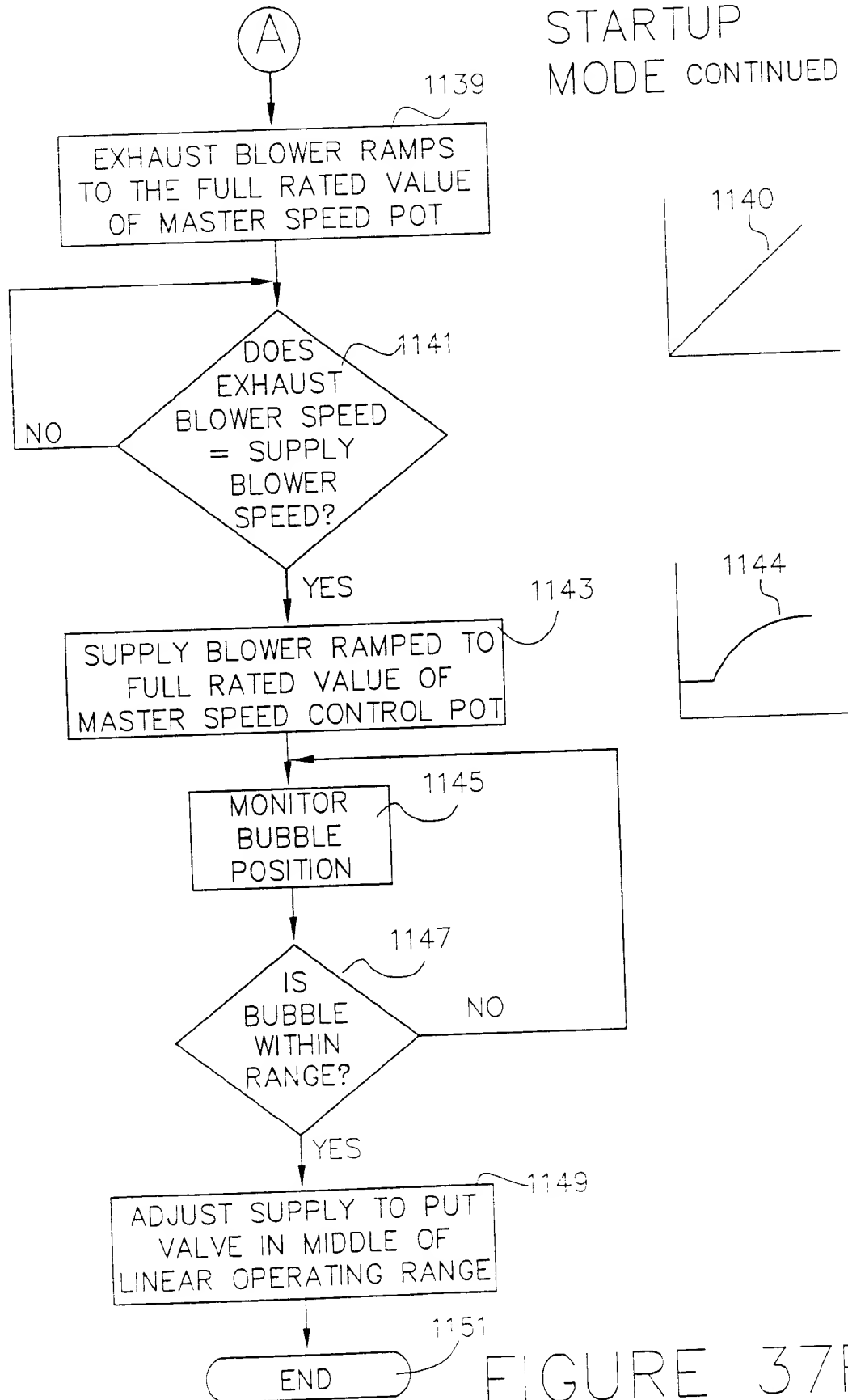


FIGURE 37F2

RUN  
MODE

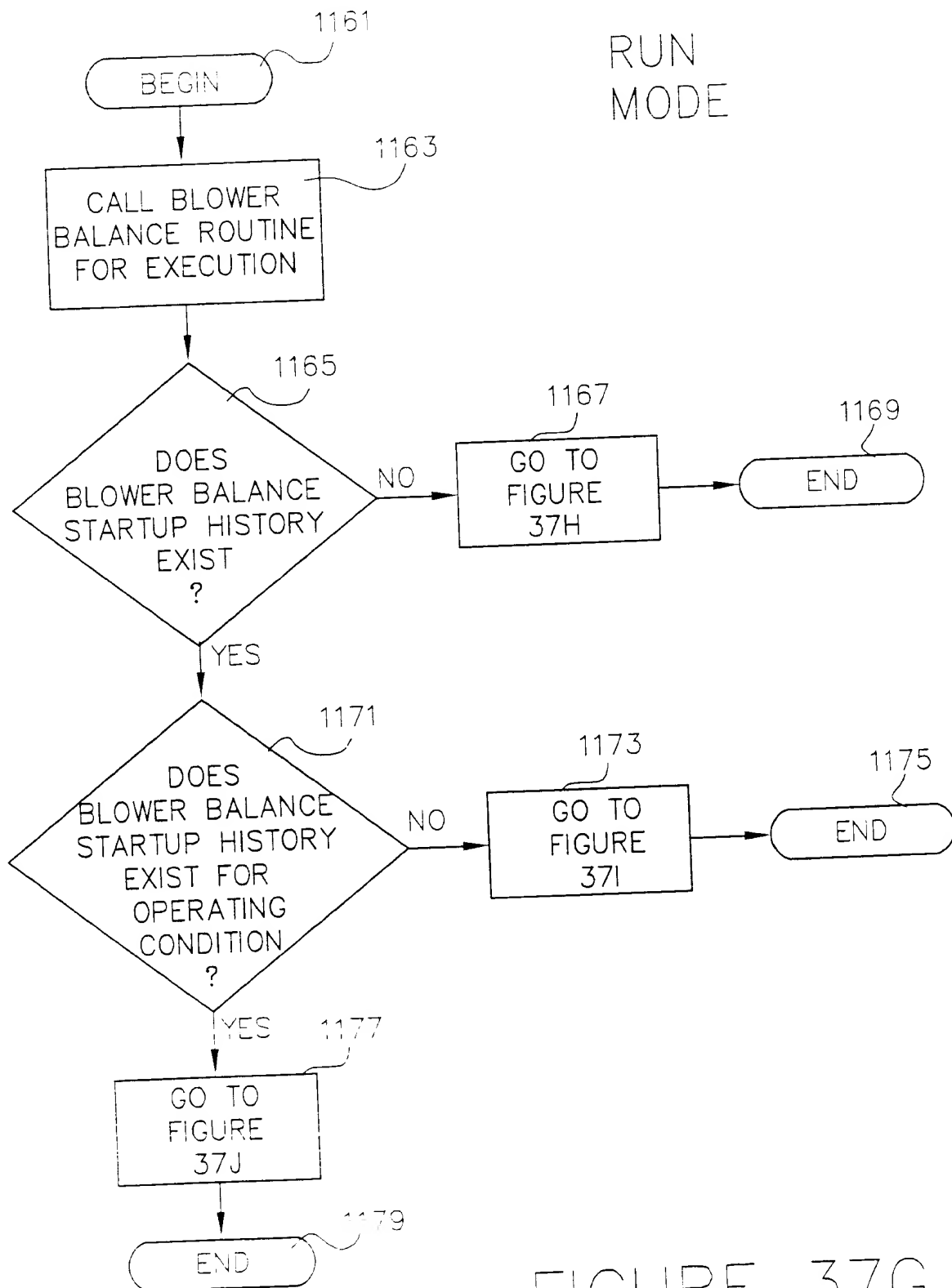


FIGURE 37G

RUN  
MODE

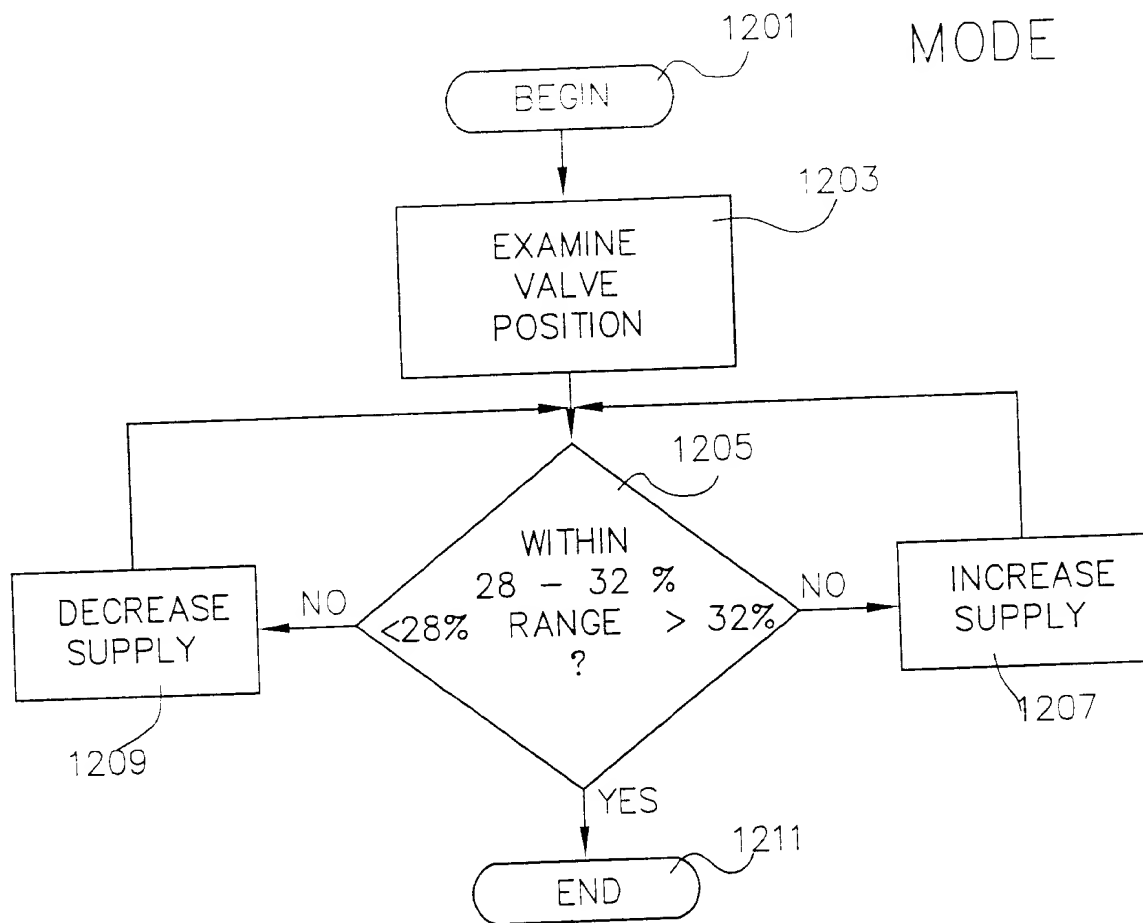


FIGURE 37H

Figure 1: Schematic representation of the experimental design. The diagram shows a flow from 'Stimulus' to 'Response' and 'Reaction time'. The 'Stimulus' is a word, and the 'Response' is a button press. The 'Reaction time' is the time between the stimulus and the response. The diagram also shows a 'Response' box with 'Correct' and 'Incorrect' outcomes, leading to 'Feedback' and 'Reaction time' respectively. The 'Reaction time' is also shown as a box with 'Correct' and 'Incorrect' outcomes, leading to 'Feedback' and 'Reaction time' respectively.



RUN  
MODE

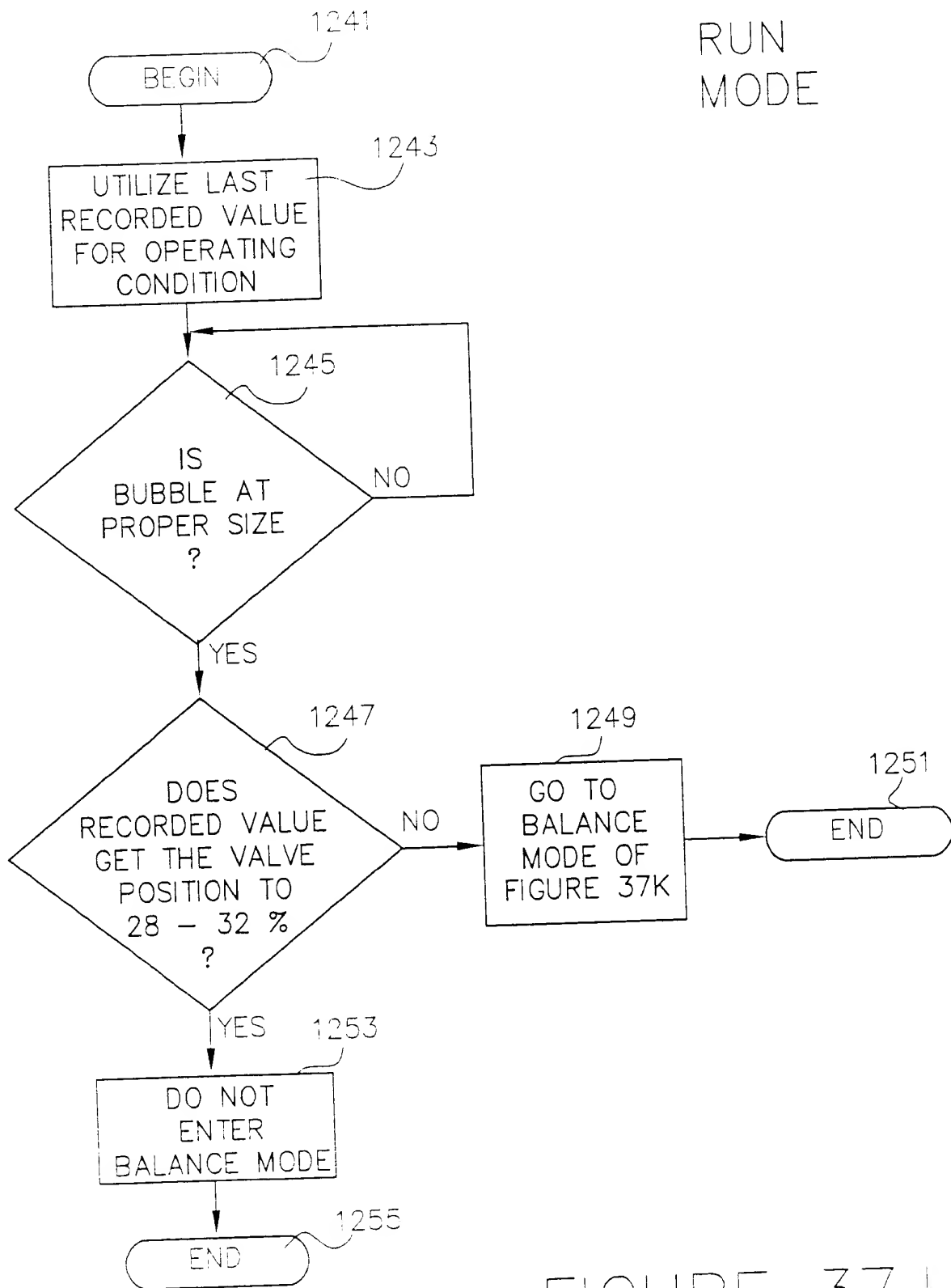


FIGURE 37J

BALANCE  
MODE

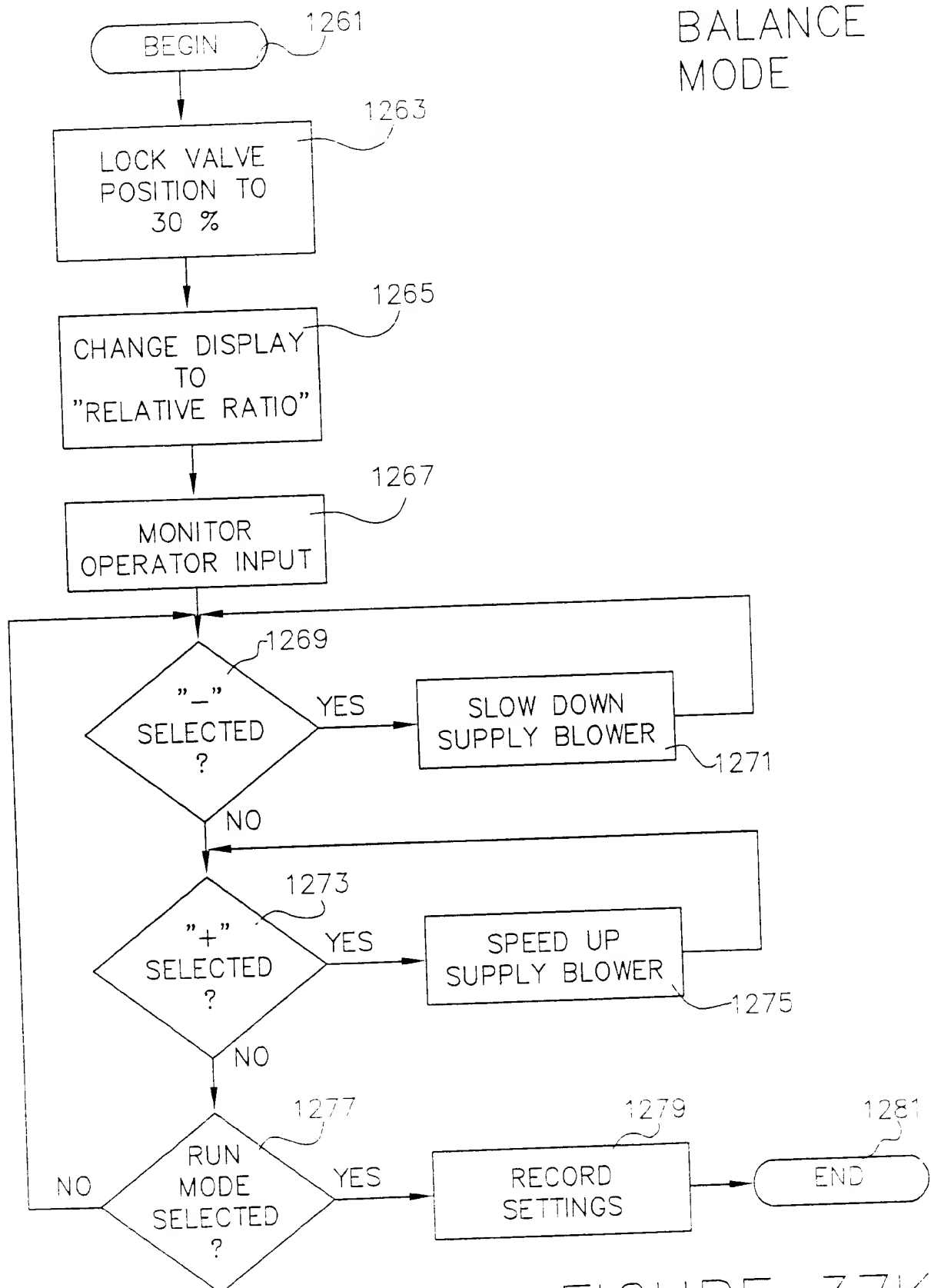


FIGURE 37K

1301 MASTER SPEED POT SETTING	1303 SUPPLY SPEED	1305 REFERENCE VOLTS
A% B% ° ° ° °	AC AG ° ° ° °	BD BF ° ° ° °
Z%	AM	BX

FIGURE 37L

# BUBBLE BREAK DETECTOR

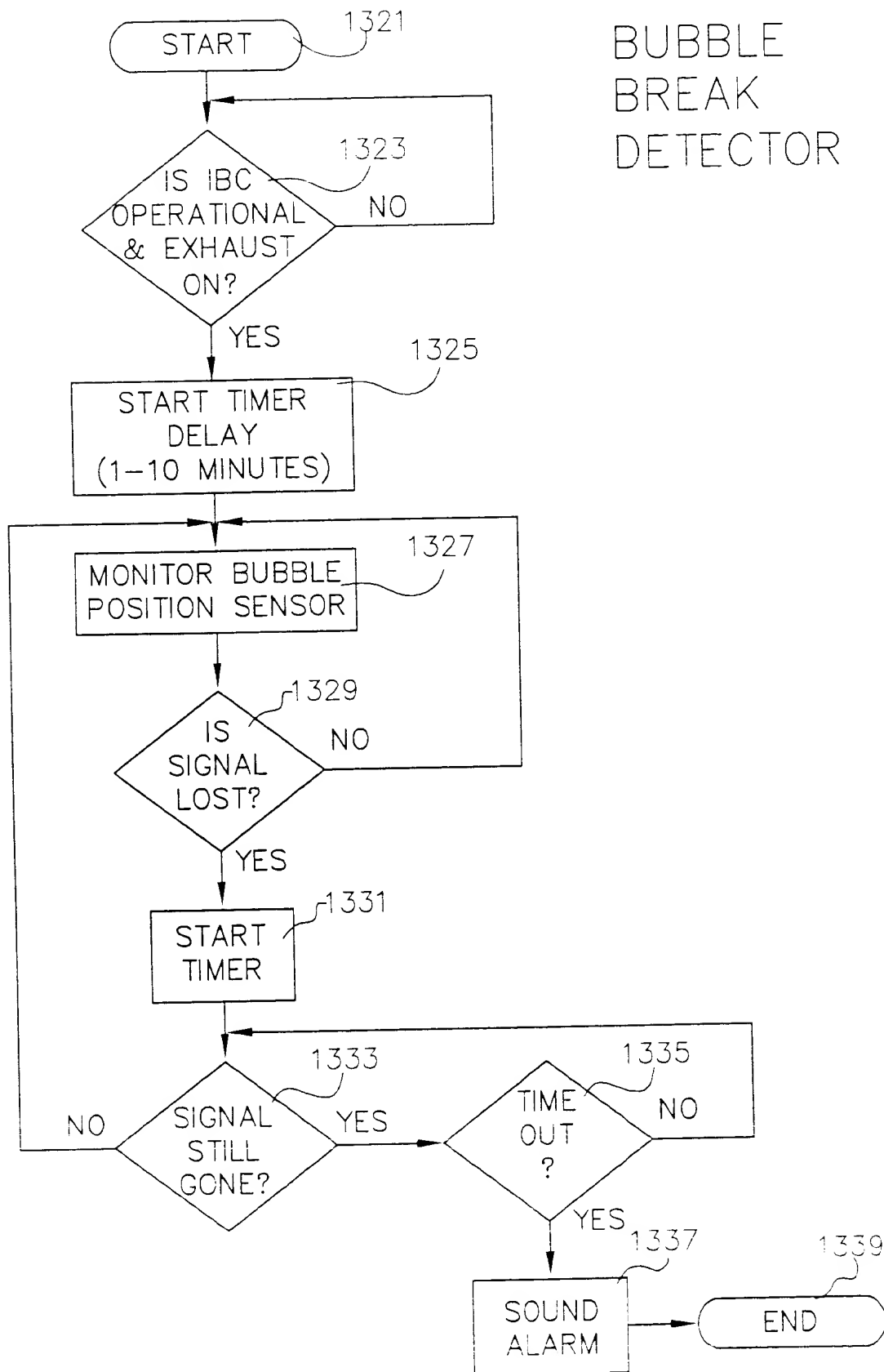


FIGURE 37M